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OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 07:21:57 ; Search time 81 Seconds
(without alignments)
2363.680 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccgccgagga 345

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	261.6	75.8	652	3	US-08-836-075A-59
3	239.4	75.2	573	2	US-08-290-665A-136
4	239.4	75.2	573	4	US-08-194-949A-5
5	259.4	75.2	573	5	PCT-US95-10398-136
6	257.8	74.7	573	2	US-08-290-665A-141
7	257.8	74.7	573	5	PCT-US95-10398-141
8	257.8	74.7	803	1	US-08-157-235-4
9	257.8	74.7	803	1	US-08-157-235-5
10	256.2	74.3	573	2	US-08-290-665A-135
11	256.2	74.3	573	2	US-08-290-665A-137
12	256.2	74.3	573	2	US-08-290-665A-138
13	256.2	74.3	573	5	PCT-US95-10398-135
14	256.2	74.3	573	5	PCT-US95-10398-137
15	256.2	74.3	573	5	PCT-US95-10398-138
16	256.2	74.3	1037	1	US-08-462-195-1
17	256.2	74.3	1037	1	US-08-635-883-1
18	256.2	74.3	1037	3	US-09-127-829-1
19	254.6	73.8	573	2	US-08-290-665A-107
20	254.6	73.8	573	2	US-08-290-665A-114
21	254.6	73.8	573	2	US-08-290-665A-119
22	254.6	73.8	573	5	PCT-US95-10398-107
23	254.6	73.8	573	5	PCT-US95-10398-114
24	254.6	73.8	573	5	PCT-US95-10398-119
25	254.6	73.8	803	1	US-08-157-235-2
26	253.6	73.5	573	2	US-08-290-665A-139
27	253.6	73.5	573	5	PCT-US95-10398-139

28 253.6 73.5 803 1 US-08-157-235-6
29 253 73.3 573 2 US-08-290-665A-113
30 253 73.3 573 5 PCT-US95-10398-113
31 253 73.3 803 1 US-08-157-235-1
32 253 73.3 1539 2 US-08-470-426B-17
33 253 73.3 1863 2 US-08-470-426B-14
34 253 73.3 2433 3 US-08-612-973-49
35 253 73.3 2433 3 US-08-927-597-49
36 251.4 72.9 345 1 US-08-324-977-7
37 251.4 72.9 345 2 US-08-384-616-7
38 251.4 72.9 345 2 US-08-904-686A-7
39 251.4 72.9 345 3 US-09-315-850-7
40 251.4 72.9 573 2 US-08-290-665A-108
41 251.4 72.9 573 5 PCT-US95-10398-108
42 251.4 72.9 803 1 US-08-157-235-3
43 251.4 72.9 1167 1 US-08-324-977-9
44 251.4 72.9 1167 2 US-08-384-616-9
45 251.4 72.9 1167 2 US-08-904-686A-9

ALIGNMENTS

RESULT 1

US-08-836-075A-49

; Sequence 49, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSER: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 309 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; US-08-836-075A-49

QY	1	ATGACGACACTTCTTAACCAACAAGAAACCAAAAGAAACACCAACC-CCGGCCACAG	59
Db	1	ATGACGACGAATCTTAACCTCAAAAGAAACCAAAAGAAACCAACCAACCGCCGCCACAG	60
QY	60	GACGTAAAGTTCCCAAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG	119
Db	61	GACGTCAAGTTCCCGGGCGGTGGTCAGATCGTTGGTGGAGTTTACTTGTGGCGCGAGG	120
QY	120	GGCCCCAGTTGGGTGTGCTGAGTGGCAAGACTTCCGAGCGGTGCGAACTCGCAGT	179
Db	121	GGCCCCAGGTTGGGTGTGCTGCGCGCACTAGGAAGACTTCCGAGCGGTGCGAACTCGTGA	180
QY	180	AGGCGCCCAACCATCCCCAGAGCGCGCGCGAAACGAGGCGAGGTCTTGGGCTCAGGCCGGG	239
Db	181	AGGCGACAGCTATCCCCAAGGCTCGCGGCCCGAGGCGAGTCTTGGGCTCAGGCCGGG	240
QY	240	TACCCTTGGCCCCCTATATGGGAATAGGGCTGCGGGTGGGCGAGGTGGTCTGTGTCGGC	299
Db	241	TACCCTTGGCCCCCTATATGGCAATAGAGGGTTTCGGGTGGGCGAGGATGGTCTGTGTCGGC	300
QY	300	CGCGGACTCTCGCCGTCTGTGGGGCCCAATGACCCCCCGGCGCAGG	344
Db	301	CGCGGCTCTCGGCTTAGTTTGGGGCCCCACTGACCCCCCGGCGTAGG	345

RESULT 5
 PCT-US95-10398-136
 ; Sequence 136, Application PC/TUS9510398
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: MORGAN & FINNEGAN
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/-10398
 ; FILING DATE: 15-AUG-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/086,428
 ; FILING DATE: 29 JUNE 1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/290/665
 ; FILING DATE: 15 AUGUST 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6949
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 136:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear

; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.3e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG 59
Db 1 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG 60
QY 60 GAGCTTAAGTTCCACGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
Db 61 GAGCTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTTTACGTGTGGCGCGAGG 120
QY 120 GCGCCCGAGTTGGGTGTGCGTCAGTGCAGACACTTCCGACGGTTCGCAACTCGCAGT 179
Db 121 GCGCCACGATTTGGGTGTGCGCGCGACGCGTAAACTTCTGAACGGTCAACAGCTCGCGGA 180
QY 180 AGCGCGCACACCATCCCGAGGCGCGCGAAACCGAGGCGAGTCTTGGCTCAGCGCGGG 239
Db 181 CGACGACAGCTATCCCGAGGCGCGGTGCGAGCGAGCGCGTCTTGGGCTCAGCGCGGG 240
QY 240 TACCTTGGCCCTTATGGAATGAGGCGTGGGCGAGGCTCGCTCTGTCCCGG 299
Db 241 TACCTTGGCCCTTATGGAATGAGGCGTGGGCGAGGCTCGCTCTGTCCCGG 300
QY 300 CGCGGCTCTGCGGCGTGTGGGCGCCCAATGACCCCGCGCGAGG 344
Db 301 CGCGGCTCTGCGGCGTGTGGGCGCCCAACGACCCCGCGGAGG 345

RESULT 6

US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852

; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 74.7%; Score 257.8; DB 2; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.5e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG-G 59
Db 1 ATGAGCACAAATCTTAACCTCAAGAAACCAAAAGAAACCAACCAAC-CCGTCGCCCATG 60
QY 60 GAGCTTAAGTTCCACGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
Db 61 GATGTGAAATTCGCGCGCGCGCCAGATCGTTGGCGGAGTTTACTTGTCTGCGCGCAGG 120
QY 120 GCGCCCGAGTTGGGTGTGCGTCAGTGCAGCAAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 121 GCGCCCGGTTGGGTGTGCGCGCAGCTCGGAAGACTTCGAGCGGTCACAACCTCGTGGC 180
QY 180 AGCGCGCAACCATCCCGAGGCGCGCGAAACCGAGGCGAGTCTTGGGCTCAGCGCGGG 239
Db 181 AGCGTTCAGCTATCCCAAGGCGCGCGGTCCGAGGCGAGTCTTGGGCTCAGCGCGGG 240
QY 240 TACCTTGGCCCTTATGGAATGAGGCGTGGGCGAGGCTCGGCGTGGCGAGGTTGCTCTGTCTCCCG 299
Db 241 TACCTTGGCCCTTACGCAATGAGGCGTGTGGTGGCGAGGTTGCTCTGTCTCTCCCG 300
QY 300 CGCGGCTCTGCGGCGTGTGGGCGCCCAATGACCCCGCGCGAGG 344
Db 301 CGCGGTTCCAGGCGGTCTTGGGCGCCCAATGATCCCGCGGTAGG 345

RESULT 7

PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:

APPLICANT: OKAMOTO, Hitoaki
 TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
 TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES, AND
 TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, DeGrandi, Weilacher & Young
 STREET: 1850 M Street N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY:
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/157,235
 FILING DATE: 24-NOV-1993

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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 354370/92
; FILING DATE: 27-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert G. Wellacher
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-49206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: 64470
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 803 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-157-235-5

Query Match          74.7%; Score 257.8; DB 1; Length 803;
Best Local Similarity 86.1%; Pred. No. 7.2e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACC-CGGGCCACAG 59
DB 298 ATGAGCACACTTCTTAACACTCAAGAAACCAAAAGAAACCAACCATCGTCGCCACAG 357
QY 60 GAGTTAAGTTCCAGCGCGGTGATGCTGTTGGTGGAGTTAGTGCTACCGCAGG 119
DB 358 GAGCTCAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTAGTACGTGTGCGCGCAGG 417
QY 120 GGCCCCCAGTTGGGTGTGGGTGCGAGTCGCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 179
DB 418 GGCCCCAGTTGGGTGTGGGTGCGCGACGCGTAAACTTCTGAACGCTCACAGCTCGCGA 477
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCGACCGAGCGGAGGTCTCTGGGCTCAGCCCGG 239
DB 478 CGACGACAGCCTATCCCGAAGGCGCGTCGAGCGAAGAGCGGCTCTCTGGGCTCAGCCCGG 537
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTCTGTCCTCCCG 299
DB 538 TACCTTGGCCCTCTATGTAAGAGGCTGCGGTGGCGAGGAGTGGTCTCTGTCCTCCCG 597
QY 300 CGCGGCTCTCGCCCGTGTGGGGCCCAAAATGACCCCGCGCAGG 344
DB 598 CGCGGCTCTCGCTCATGAGGCGCCCAAAATGACCCCGCGCAGG 642

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RESULT 10
US-08-290-665A-135
; Sequence 135, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: HK10
; US-08-290-665A-135

Query Match          74.3%; Score 256.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.1e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACC-CGGGCCACAG 59
DB 1 ATGAGCACACTTCTTAACACTCAAGAAACCAAAAGAAACCAACCATCGTCGCCACAG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGATGCTGTTGGTGGAGTTAGTGCTACCGCAGG 119
DB 61 GACGTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGCGCAGG 120
QY 120 GGCCCCCAGTTGGGTGTGGGTGCGAGTCGCGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
DB 121 GGCCCCAGTTGGGTGTGGGTGCGCGACGCGTAAACTTCTGAACGCTCAGCGCAGG 180
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCGACCGAGGCGAGGTCTCTGGGCTCAGCCCGG 239
DB 181 CGACGACAGCCTATCCCGAAGGCGCGTCGAGCGAAGAGCGGCTCTCTGGGCTCAGCCCGG 240
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTCTGTCCTCCCG 299
DB 241 TACCTTGGCCCTCTATGTAAGAGGCTGCGGTGGCGAGGATGGTCTCTGTCCTCCCG 300
QY 300 CGCGGCTCTCGCCCGTGTGGGGCCCAAAATGACCCCGCGCAGG 344
DB 301 CGCGGCTCTCGCTCATGAGGCGCCCAAAAGAGAGCGCGCGCAGG 345

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RESULT 11
US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

```


; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/10398
 ; FILING DATE: 15-AUG-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/086,428
 ; FILING DATE: 29 JUNE 1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/290/665
 ; FILING DATE: 15 AUGUST 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 135:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: HK10
 ; PCT-US95-10398-135

Query Match 74.3%; Score 256.2; DB 5; Length 573;
 Best Local Similarity 85.8%; Pred. No. 1.8e-63;
 Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
 DB 1 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAAC-CCGTGCGCCACAG 60
 QY 60 GACGTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGCTACCAACGACG 119
 DB 61 GACGTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGGCGAGG 120
 QY 120 GGCCCCAGTTGGGTGGTGCAGTGGCGAAGACTTCCGAGCGGTCCGAACTCGAGT 179
 DB 121 GGCCCCAGTTGGGTGGTGCAGTGGCGAAGACTTCTGAACCGTTCGAGCTCGCGGA 180
 QY 180 AGCGGCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGGTCTCTGGGCTCAGCCCCGG 239
 DB 181 CGAGCAGACCTATCCCAAGCGCGTCCGAGGAGGCGCGTCTGGGCTCAGCCCCGG 240
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGGAGGAGTGGCTCTGTCCCG 299
 DB 241 TACCTTGGCCCCCTCTATGGTAACGAGGCTCGGGTGGGAGGAGTGGCTCTGTCCCA 300
 QY 300 CGCGGCTCTCGCCGTCGTTGGGGGCCCAATGATGACCCCGCGCGAGG 344
 DB 301 CGCGGCTCTCGTCCATCTTTGGGGGCCCAACAGACCCCGCGGAGG 345

RESULT 14
 PCT-US95-10398-137
 Sequence 137, Application PC/TUS9510398

; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/10398
 ; FILING DATE: 15-AUG-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/086,428
 ; FILING DATE: 29 JUNE 1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/290/665
 ; FILING DATE: 15 AUGUST 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 137:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: S2
 ; PCT-US95-10398-137

Query Match 74.3%; Score 256.2; DB 5; Length 573;
 Best Local Similarity 85.8%; Pred. No. 1.8e-63;
 Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
 DB 1 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAAC-CCGTGCGCCACAG 60
 QY 60 GACGTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGCTACCAACGACG 119
 DB 61 GACATCAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGGCGAGG 120
 QY 120 GGCCCCAGTTGGGTGGTGCAGTGGCGAAGACTTCCGAGCGGTTCGAACTCGAGT 179
 DB 121 GGCCCCAGTTGGGTGGTGCAGTGGCGAAGACTTCTGAACCGTTCAGAGCTTCGCGGA 180
 QY 180 AGCGGCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGGTCTCTGGGCTCAGCCCCGG 239
 DB 181 CGGGCAGACCTATCCCAAGGCGCGTCCGAGGAGGCGCGATCTCTGGGCTCAGCCCCGG 240
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGGAGGAGTGGCTCTGTCCCG 299
 DB 241 TACCTTGGCCCCCTCTATGGTAACGAGGCTCGGGTGGGAGGAGTGGCTCTGTCCCA 300

Qy	300	CGCGGCTCTCGCCCGTCTGGGGCCAAATGACCCCGGCGGAGG	344
D _b	301	CGCGGCTCCGTCCATCTTGGGGCCAAATGACCCCGGCGGAGG	345

RESULT 15
PCT-US95-10398-138
; Sequence 138, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF
; TITLE OF INVENTION: THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

Query Match 74.3%; Score 256.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

Qy 1 ATGAGCACATCTCTTAATACCAGAAGAAAAACCAAAAGAAACACCAACACC-CCGCGCCACAG 59

Db 1 ATGAGCACATCTCTTAACCTCAAGAAGAAAAACCAAAAGAAACACCAATCCGTCCGCCACAG 60

Qy 60 GACGTTAAGTTCCTCCAGGGGGGGTCCAGATCGTGGTGGAGTTTACGTCGTACCAACGACAG 119

Db 61 GACGTCAAGTTCCTCCGGTGGCGGACAGATCGTGGTGGAGTATACGTGTTCCCGCCAGG 120

Qy 120 GGCCTCCAGTTCCGGTGTGGTGCGATGTCGCGAAGACTTCCGAGCGGTGCGAACCTCCAGT 179

Blank

GenCore version 5.1.6
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CM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 11:09:51 ; Search time 355 Seconds
(without alignments)
4768.393 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atggacacacttcttaaac.....aaatgaccccgccaggca 345

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3225727 seqs, 2453303834 residues

Total number of hits satisfying chosen parameters: 6451454

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:
- 2: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
- 3: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
- 5: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:
- 6: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:
- 7: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:
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- 9: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
- 11: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
- 12: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
- 13: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
- 14: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
- 15: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
- 16: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
- 17: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:
- 19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	13	US-09-873-224-147
2	334	96.8	346	10	US-09-899-046-147
3	334	96.8	346	10	US-09-878-281-147
4	309	89.6	309	9	US-09-851-138-49
5	261.6	75.8	652	9	US-09-851-138-59
6	260.2	75.4	499	10	US-09-899-046-165
7	260.2	75.4	499	10	US-09-878-281-165
8	260.2	75.4	499	13	US-09-873-224-165
9	259.4	75.2	573	10	US-09-194-949-5
10	254.6	73.8	499	10	US-09-899-046-163
11	254.6	73.8	499	10	US-09-878-281-163
12	254.6	73.8	499	13	US-09-873-224-163
13	253.6	73.5	498	10	US-09-899-046-193
14	253.6	73.5	498	10	US-09-878-281-193

15	253.6	73.5	498	13	US-09-873-224-193
16	253	73.3	2433	9	US-09-973-025-49
17	253	73.3	2433	10	US-09-899-046-147
18	253	73.3	2433	10	US-09-899-046-147
19	253	73.3	2433	10	US-09-899-046-147
20	253	73.3	2433	10	US-09-899-046-147
21	253	73.3	2433	17	US-10-321-798-49
22	249.8	72.4	360	13	US-09-306-780-3
23	249.8	72.4	483	13	US-09-306-780-7
24	249.8	72.4	483	13	US-09-306-780-11
25	249.8	72.4	9413	10	US-09-827-688-6
26	248.8	72.1	957	9	US-09-851-138-11
27	248.2	71.9	480	15	US-10-071-867-15
28	248.2	71.9	9275	15	US-10-259-275-39
29	246.6	71.5	685	10	US-09-853-409-37
30	246.6	71.5	685	13	US-10-457-304-37
31	246.6	71.5	708	16	US-10-365-620-57
32	246.6	71.5	750	16	US-10-365-620-57
33	246.6	71.5	1380	16	US-10-365-620-59
34	246.6	71.5	1422	16	US-10-365-620-55
35	246.6	71.5	9365	10	US-09-827-688-7
36	246.6	71.5	9416	9	US-09-929-955-13
37	246.6	71.5	9416	14	US-10-104-966-13
38	246.6	71.5	9416	17	US-10-719-619-13
39	246.6	71.5	9599	13	US-10-189-359-13
40	246.6	71.5	9605	13	US-10-467-000-2
41	246.6	71.5	9646	9	US-09-742-659-3
42	246.6	71.5	9646	9	US-09-238-075-1
43	246.6	71.5	9646	10	US-09-995-937-1
44	246.6	71.5	9646	10	US-09-917-563-1
45	246.6	71.5	9646	10	US-09-917-563-1

ALIGNMENTS

RESULT 1

US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..345
NAME/KEY: mat_peptide
LOCATION: 1..342
SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match 100.0%; Score 345; DB 13; Length 345;
Best Local Similarity 100.0%; Pred. No. 1e-96; 0; Indels 0; Gaps 0;
Matches 345; Conservative 0; Mismatches 0;

QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACACCCCGGCCACAGG 60
DB 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACACCCCGGCCACAGG 60

QY 61 AGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACGACGG 120
DB 61 AGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACGACGG 120

QY 121 GCCCCAGTTCGCTGCGTGCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180
DB 121 GCCCCAGTTCGCTGCGTGCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180

QY 181 GGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTTGGGTACGCCGGGT 240
DB 181 GGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTTGGGTACGCCGGGT 240

QY 241 ACCCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTTGTCTCCCGGC 300
DB 241 ACCCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTTGTCTCCCGGC 300

QY 301 GCGGCTCTCGCCCGTCTGCGGCGCCCAATGACCCCGCGCAGGA 345
DB 301 GCGGCTCTCGCCCGTCTGCGGCGCCCAATGACCCCGCGCAGGA 345

RESULT 2
US-09-899-046-147
Sequence 147, Application US/09899046
Publication No. US2003008274A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
FILING DATE: US/09/899,046
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 147:
SEQUENCE CHARACTERISTICS:
LENGTH: 346 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..346

FEATURE:
NAME/KEY: mat_peptide
LOCATION: 1..342
US-09-899-046-147

Query Match 96.8%; Score 334; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 2.6e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACACCCCGGCCACAG 59
DB 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACACCCCGGCCACAG 60

QY 60 GAGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACGACGG 119
DB 61 GAGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACGACGG 120

QY 120 GGCCCCAGTTCGCTGCGTGCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGT 179
DB 121 GGCCCCAGTTCGCTGCGTGCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGT 180

QY 180 AGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTTGGGTACGCCGGG 239
DB 181 AGCGCCAAACCCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTTGGGTACGCCGGG 240

QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTTGTCTCCCGGC 299
DB 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCTGCTTGTCTCCCGGC 300

QY 300 GCGGCTCTCGCCCGTCTGCGGCGCCCAATGACCCCGCGCAGGA 345
DB 301 GCGGCTCTCGCCCGTCTGCGGCGCCCAATGACCCCGCGCAGGA 346

RESULT 3
US-09-878-281-147
Sequence 147, Application US/09878281
Publication No. US20030032005A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
FILING DATE: US/09/878,281
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 147:
SEQUENCE CHARACTERISTICS:
LENGTH: 346 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..346
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 1..342
US-09-878-281-147

Query Match 96.8%; Score 334; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 2.6e-93;

Matches	345;	Conservative	0;	Mismatches	0;	Indels	1;	Gaps	1;
Qy	1	ATGAGCACACTTCTCTAAACCAACAAGAAAAACCAAAAGAAACACCAACC-CGGGCCACAG	59						
Db	1	ATGAGCACACTTCTCTAAACCAACAAGAAAAACCAAAAGAAACACCAACCSCGGGCCACAG	60						
Qy	60	GAGCTTAAGTTCCTCCAGCGCGCGTTCAGATCGTTGGTGGAGTTTACGTCTCTACCCAGG	119						
Db	61	GAGCTTAAGTTCCTCCAGCGCGCGTTCAGATCGTTGGTGGAGTTTACGTCTCTACCCAGG	120						
Qy	120	GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAAGACTTCCGAGCGGTTCGCAACCTCGCAGT	179						
Db	121	GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAAGACTTCCGAGCGGTTCGCAACCTCGCAGT	180						
Qy	180	AGCGCGCAACCATCCCAAGGGGGCGCGCAACCGAGGGCAGGTCTCTGGCTCAGCCCGGG	239						
Db	181	AGCGCGCAACCATCCCAAGGGGGCGCGCAACCGAGGGCAGGTCTCTGGCTCAGCCCGGG	240						
Qy	240	TACCTTGGCCCCCTATATGGGAATCAGGGCTCGGGTGGCGAGGGTGCTCTCTGTCCTCCG	299						
Db	241	TACCTTGGCCCCCTATATGGGAATCAGGGCTCGGGTGGCGAGGGTGCTCTCTGTCCTCCG	300						
Qy	300	CGCGGCTCTCGCCCGCTGCTGGGGCCCCAATGATACCCCGCGCGCAGGA	345						
Db	301	CGCGGCTCTCGCCCGCTGCTGGGGCCCCAATGATACCCCGCGCGCAGGA	346						
RESULT 4									
US-09-851-138-49									
; Sequence 49, Application US/09851138									
; Publication No. US20020183508A1									
; GENERAL INFORMATION:									
; APPLICANT: MAERTENS, GEBERT									
; STUDYER, LIEVEN									
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES									
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC									
; AGENTS									
; NUMBER OF SEQUENCES: 207									
; CORRESPONDENCE ADDRESS:									
; ADDRESSEE: ARNOLD, WHITE & DURKEE									
; STREET: P. O. BOX 4433									
; CITY: HOUSTON									
; STATE: TEXAS									
; COUNTRY: USA									
; ZIP: 77210-4433									
; COMPUTER READABLE FORM:									
; MEDIUM TYPE: Floppy disk									
; COMPUTER: IBM PC compatible									
; OPERATING SYSTEM: PC-DOS/MS-DOS									
; SOFTWARE: Microsoft Word 6.0 / ASCII text output									
; CURRENT APPLICATION DATA:									
; APPLICATION NUMBER: US/09/851,138									
; FILING DATE: 09-May-2001									
; PRIOR APPLICATION DATA:									
; APPLICATION NUMBER: 08/836,075									
; FILING DATE: <Unknown>									

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;
; US-09-851-138-49
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; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
;
Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 1.4e-85;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTCTTAACACACAAAGAAACCAAAAGAAACCAACACCCCGCCACAGG 60
DB 1 ATGAGCACATCTCTTAACACACAAAGAAACCAAAAGAAACCAACACCCCGCCACAGG 60
QY 61 ACCTTAAGTTCCCGAGCGCGGTCAGATCGTTGGTAGTTTACGTGCTACACGACGAGG 120
DB 61 ACCTTAAGTTCCCGAGCGCGGTCAGATCGTTGGTAGTTTACGTGCTACACGACGAGG 120
QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAGCACTTCCGAGCGGTGCGCAACCTGCGAGTA 180
DB 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAGCACTTCCGAGCGGTGCGCAACCTGCGAGTA 180
QY 181 GCGGCCAACCCATCCCGAGCGCGCGCGACGAGGCGAGTCTCTGGGCTCAGCCCGGT 240
DB 181 GCGGCCAACCCATCCCGAGCGCGCGCGACGAGGCGAGTCTCTGGGCTCAGCCCGGT 240
QY 241 ACCCTTGGCCCTATATGGGAATAGAGGCTGCGGGTGGCAGGCTGCTCTCTCCCGCG 300
DB 241 ACCCTTGGCCCTATATGGGAATAGAGGCTGCGGGTGGCAGGCTGCTCTCTCTCCCGCG 300
QY 301 GCGGCTCTC 309
DB 301 GCGGCTCTC 309

RESULT 5
US-09-851-138-59
; Sequence 59, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBRT
;          STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
;          AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIA
;          AGENTS
;
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
;
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 base pairs
; TYPE: nucleic acid

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 59;
US-09-851-138-59

Query Match 75.4%; Score 261.6; DB 9; Length 652;
Best Local Similarity 86.7%; Pred. No. 7.1e-71;
Matches 297; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 60
Db 60 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
QY 61 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
Db 120 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 179
QY 121 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 180
Db 180 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 239
QY 181 AGCGCCCAACCTATCCCAAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
Db 240 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTTGCTTCTGTCCTCG 299
QY 241 TATCTTGGCCCCCTTACGGCAATGAGGGCTGTTGGGTGGGCGAGGTTGCTTCTGTCCTCG 300
Db 300 CGGGCTCTCGCGCGCTGTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 343
QY 301 CGGGCTCTCGCGCGCTGTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 344
Db

RESULT 7
US-09-878-281-165
; Sequence 165, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-09-878-281-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 1.8e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 59
Db 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 60
QY 60 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
Db 61 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
QY 120 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 179
Db 121 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 180
QY 180 AGCGCCCAACCTATCCCAAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 239
Db

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 59;
US-09-851-138-59

Query Match 75.8%; Score 261.6; DB 9; Length 652;
Best Local Similarity 86.7%; Pred. No. 7.1e-71;
Matches 297; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 59
Db 239 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 298
QY 60 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
Db 299 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 358
QY 120 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 179
Db 359 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 418
QY 180 AGCGCCCAACCTATCCCAAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 239
Db 419 AGCGCCCAACCTATCCCAAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 478
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTTGCTTCTGTCCTCG 299
Db 479 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTTGCTTCTGTCCTCG 538
QY 300 CGGGCTCTCGCGCGCTGTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 344
Db 539 CGGGCTCTCGCGCGCTGTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 583

RESULT 6
US-09-899-046-165
; Sequence 165, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-09-899-046-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
Best Local Similarity 86.3%; Pred. No. 1.8e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAAAAGAAACCAACACCGCCGCGCCATG 59
Db

Db 181 AGCGCCAACTATCCCAAGGCGCGCAACCGAGGCGAGATCCTGGGCGCAGCCCGG 240
Qy 240 TACCTTGGCCCTATATGGGAATAGGCTGCGGTGGGCGAGGTGCTCTGTCCCG 299
Db 241 TATCCTTGGCCCTTTACGCAATAGGGCTGTGGTGGGCGAGGTGCTCTGTCCCT 300
Qy 300 CGCGGCTCTCGCCCTGCTGGGGGCCCAATGACCCCGGCGCAG 343
Db 301 CGCGNCTCGGNGCTTGGGGCCCCAATGATCCCCGNGGAG 344

RESULT 8

US-09-873-224-165
; Sequence 165, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; ; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; ;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873.224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; ;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362.455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; ;
; INFORMATION FOR SEQ ID NO: 165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 165:
US-09-873-224-165

Query Match 75.4%; Score 260.2; DB 13; Length 499;
Best Local Similarity 86.3%; Pred. No. 1.8e-70;
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
Qy 1 ATGAGCACATCTCTAAACACCAAGAAAAACCAACCAACCCCGGCCACA-G 59
Db 1 ATGAGCAGCAATCTAAACCTCAAGAAAAACCAACGTAACCAACCGCGCCCTATG 60
Qy 60 GAGCTTAAGTTCCAGCGGGGTGATCGTTGGTGGAGTTTACGTGCTTACCACGCAGG 119
Db 61 GAGCTTAAGTTCCAGCGGGGTGATCGTTGGTGGAGTTTACTTTGTCGCGCGCAGG 120
Qy 120 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 121 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGTGG 180
Qy 180 AGGCGCCAACTTCCCAAGGCGCGCTGATCGTTGGTGGAGTTTACGTGCTTACCACGCAGG 199
Db 181 AGGCGCCAACTTCCCAAGGCGCGCTGATCGTTGGTGGAGTTTACTTTGTCGCGCGCAGG 240
Qy 240 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 241 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGTGGG 180
Qy 180 AGGCGCCAACTTCCCAAGGCGCGCTGATCGTTGGTGGAGTTTACGTGCTTACCACGCAGG 239
Db 181 AGGCGCCAACTTCCCAAGGCGCGCTGATCGTTGGTGGAGTTTACTTTGTCGCGCGCAGG 240

Qy 240 TACCTTGGCCCTATATGGGAATAGGCTGCGGTGGGCGAGGTGCTCTGTCCCG 299
Db 241 TATCCTTGGCCCTTTACGCAATAGGGCTGTGGTGGGCGAGGTGCTCTGTCCCT 300
Qy 300 CGCGGCTCTCGCCCTGCTGGGGGCCCAATGACCCCGGCGCAG 343
Db 301 CGCGNCTCGGNGCTTGGGGCCCCAATGATCCCCGNGGAG 344

RESULT 9

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732VP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;
Best Local Similarity 86.4%; Pred. No. 3.3e-70;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

Qy 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAACCAACCAACCAACCCCGGCCAG 59
Db 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACCAACCAACCCCGGCCAG 60
Qy 60 GACGTTAAGTTCCAGCGGGGTGATCGTTGGTGGAGTTTACGTGCTTACCACGCAGG 119
Db 61 GACGTTAAGTTCCAGCGGGGTGATCGTTGGTGGAGTTTACTTTGTCGCGCGCAGG 120
Qy 120 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 121 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGAGACTTCCGAGCGGTCCGCAACTCGTGG 180
Qy 180 AGGCGCCAACTTCCCAAGGCGCGCTGATCGTTGGTGGAGTTTACGTGCTTACCACGCAGG 239
Db 181 AGGCGCAAGCTTATCCCAAGGCTGCGCGCGCGCGAGGACAGTCTCTGGGCTCAGCCCGG 240
Qy 240 TACCTTGGCCCTATATGGGAATAGGCTGCGGTGGGCGAGGTGCTCTGTGCCCG 299
Db 241 TACCTTGGCCCTCTATGGCAATGAGGGCTTCGGGTGGGCGAGGATGCTCTGTGCCCG 300
Qy 300 CGCGGCTCTCGCCCTGCTGGGGGCCCAATGACCCCGGCGCAGG 344
Db 301 CGCGGCTCTCGGCTTGGGGGCCCACTGACCCCGGCGGTAGG 345

RESULT 10

US-09-899-046-163
; Sequence 163, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:

;; TITLE OF INVENTION: New sequences of hepatitis C virus
;; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

;; NUMBER OF SEQUENCES: 270
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/899,046
;; FILING DATE:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/362,455
;; FILING DATE:

;; INFORMATION FOR SEQ ID NO: 163:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 499 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 1..499
;; FEATURE:
;; NAME/KEY: mat_peptide
;; LOCATION: 1..496

US-09-899-046-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 9.9e-69;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;
QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAGAAACCAACACCCCGGCACAG-G 59
Db 1 ATGAGCACGAATCCTAAATCTCAAGAAAGAAACCAAGAAACCAACACCCCGGCACATG 60
QY 60 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 119
Db 61 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 120
QY 120 GCGCCCAAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 179
Db 121 GCGCCTAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 180
QY 180 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 239
Db 181 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 240
QY 240 TACCTTGGCCCTATATGGGAATAGGCTCGCGGTGGCGAGGTGCTCTGTCCCGG 299
Db 241 TATCTTGGCCCTTTTACGCAATAGGCTGTTGGGTGGCGAGGTGCTCTGTCCCGT 300
QY 300 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 344
Db 301 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 345

US-09-878-281-163
Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 9.9e-69;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAGAAACCAACACCCCGGCACAG-G 59
Db 1 ATGAGCACGAATCCTAAATCTCAAGAAAGAAACCAAGAAACCAACACCCCGGCACATG 60
QY 60 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 119
Db 61 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 120
QY 120 GCGCCCAAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 179
Db 121 GCGCCTAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 180
QY 180 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 239
Db 181 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 240
QY 240 TACCTTGGCCCTATATGGGAATAGGCTCGCGGTGGCGAGGTGCTCTGTCCCGG 299
Db 241 TATCTTGGCCCTTTTACGCAATAGGCTGTTGGGTGGCGAGGTGCTCTGTCCCGT 300
QY 300 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 344
Db 301 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 345

RESULT 11

US-09-878-281-163
; Sequence 163, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/878,281
;; FILING DATE:

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/362,455
;; FILING DATE:
;; INFORMATION FOR SEQ ID NO: 163:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 499 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 1..499
;; FEATURE:
;; NAME/KEY: mat_peptide
;; LOCATION: 1..496

US-09-878-281-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 9.9e-69;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAGAAACCAACACCCCGGCACAG-G 59
Db 1 ATGAGCACGAATCCTAAATCTCAAGAAAGAAACCAAGAAACCAACACCCCGGCACATG 60
QY 60 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 119
Db 61 GAGCTTAAAGTTCACGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 120
QY 120 GCGCCCAAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 179
Db 121 GCGCCTAGTGGGTGCGTCAAGTCCGCAAGACTTCGAGCGGTCCGCACTCGCAGT 180
QY 180 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 239
Db 181 AGCGCCACACCATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 240
QY 240 TACCTTGGCCCTATATGGGAATAGGCTCGCGGTGGCGAGGTGCTCTGTCCCGG 299
Db 241 TATCTTGGCCCTTTTACGCAATAGGCTGTTGGGTGGCGAGGTGCTCTGTCCCGT 300
QY 300 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 344
Db 301 CGCGGCTCTCGCGCGGTGTTGGGCCCCCAATATGATATCCCGCGGAGG 345

US-09-873-224-163
; Sequence 163, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.

;; NUMBER OF SEQUENCES: 270
;; CORRESPONDENCE ADDRESS:
;; STREET: Industriepark Zwijnaarde 7, box 4
;; CITY: Ghent
;; COUNTRY: Belgium
;; ZIP: B-9052
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;; CURRENT APPLICATION DATA:


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; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..496
; SEQUENCE DESCRIPTION: SEQ ID NO: 163:

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```

Query Match      73.8%; Score 254.6; DB 13; Length 499;
Best Local Similarity 85.5%; Pred. No. 9.9e-69;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAAAGAAACACCAACCCCGGCCACA-G 59
DB 1 ATGAGCAGCAATCTTAATCTCAAGAAACCAAAAGTAAACCAACCCCGGCCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACCAACGAGG 119
DB 61 GACGTTAAGTTCCCGGTGTGGCGAGATCGTTGGCGAGTTTACTTGTTCGCGCAGG 120
QY 120 GGGCCCCAGTTGGTGTGGCGAGTCCGCAAGACTTCCGAGCGGTGCGCAACTCCAGT 179
DB 121 GGCCTAGTTGGTGTGGCGAGTTCGGAAGACTTCGAGCGGTGCGCAACTCCAGT 180
QY 180 AGGCGCAACCCATCCCAAGCGCGCCGCAACACAGGCGAGTCTTGGGCTCAAGCCCGG 239
DB 181 AGGCGCAACCTATCCCAAGCGCGCCGATCCGAGGCGAGTCTTGGGCGAGCCCGG 240
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTTGGGCGAGGTTGCTCTGTCCCG 299
DB 241 TATCTTGGCCCTTTACGGAATGAGGCTGTGGGTGGGCGAGGTTGGTCTCTGTCCCT 300
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCCAATGACCCCGCGGCAGG 344
DB 301 CGCGGCTCTCGCGGCTCTGGGGCCCTATGATCCCCCGGCGAGG 345

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RESULT 13
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/878,281
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:

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```

; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
; US-09-899-046-193

```

```

Query Match      73.5%; Score 253.6; DB 10; Length 498;
Best Local Similarity 85.5%; Pred. No. 2e-68;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAAAGAAACACCAACCCCGGCCACA-G 59
DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAACCAAAAGTAAACCAACCCCGGCCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACCAACGAGG 119
DB 61 GACGTTAAGTTCCCGGTGTGGCGAGTTCGTTGGCGAGTTTACTTGTTCGCGCAGG 120
QY 120 GGGCCCCAGTTGGTGTGGCGAGTTCGGAAGACTTCGAGCGGTGCGCAACTCCAGT 179
DB 121 GGGCCCCGCTTGGTGTGGCGAGTTCGGAAGACTTCGGAAGACTTCGAGCGGTGCGCA 180
QY 180 AGGCGCAACCCATCCCAAGCGCGCCGCAACACAGGCGAGTCTTGGGCTCAGCCCGG 239
DB 181 AGGCGTCAACTATCCCAAGCGCGCCGTCGAGGCGAGTCTTGGGCGAGCCCGG 240
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTTGGGCGAGGTTGCTCTGTCCCG 299
DB 241 TACCCCTGGCCCTCTATGCAATGAGGCTGTGGGTGGGCGAGGTTGCTCTGTCTCT 300
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCCAATGACCCCGCGGCAG 343
DB 301 CGCGGCTCTCGGCCATCTTGGGGCCCAATGATCCCCCGGCGAG 344

```

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RESULT 14
US-09-878-281-193
; Sequence 193, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/878,281
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:

```

TELEPHONE: 00 32 9 241 07 11
TELEFAX: 00 32 9 241 07 99
INFORMATION FOR SEQ ID NO: 193:
SEQUENCE CHARACTERISTICS:
LENGTH: 498 base pairs
TYPE: nucleic acid
TOPOLOGY: linear
STRADEDNESS: single
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..498
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 1..495
SEQUENCE DESCRIPTION: SEQ ID NO: 193:
US-09-873-224-193

Query Match 73.5%; Score 253.6; DB 13; Length 498;
Best Local Similarity 85.5%; Pred. No. 2e-68;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAAGAAACACCAACACCCCGGCACAC-G 59
DB 1 ATGAGCACAGTAATCCTAAACCTCAAGAAACCAAAAGAAACACCAACACCCCGGCCTATG 60
QY 60 GACGTTAAAGTTCCCGGCGGTGACAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
DB 61 GACGTTAAAGTTCCCGGCGGTGACAGATCGTTGGTGGAGTTTACTTTGTTCGCGCGAG 120
QY 120 GCGCCCGAGTTGGGTGCGTGCAGTGGCGAGCTTCCGAGCGGTCCGCAACCTCGCAGT 179
DB 121 GCGCCCGAGTTGGGTGCGTGCAGTGGCGAGCTTCCGAGCGGTCCGCAACCTCGTGC 180
QY 180 AGCGCGCAACCCATCCCGCGCGGTGACAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 239
DB 181 AGCGGTCAACCTATCCCGAGCGGTGACAGATCGTTGGTGGAGTTTACTTTGTTCGCGCGAG 240
QY 240 TACCCCTGGCCCCCTATATGGGAATGAGGCTGGGGTGGGAGGTTGGTCTCTGTCCTCCG 299
DB 241 TACCCCTGGCCCCCTCTATGGCAATGAGGCTGGGGTGGGAGGTTGGTCTCTGTCCTCT 300
QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCCAATGACCCCGCGCGAG 343
DB 301 CGCGGCTCTCGGCACTTGGGGCCCAATGATCCCGCGCGAG 344

Search completed: August 17, 2004, 13:18:44
Job time : 357 secs

LENGTH: 498 base pairs
TYPE: nucleic acid
STRADEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..498
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 1..495
US-09-878-281-193

Query Match 73.5%; Score 253.6; DB 10; Length 498;
Best Local Similarity 85.5%; Pred. No. 2e-68;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAAGAAACACCAACACCCCGGCACAC-G 59
DB 1 ATGAGCACAGTAATCCTAAACCTCAAGAAACCAAAAGAAACACCAACACCCCGGCCTATG 60
QY 60 GACGTTAAAGTTCCCGGCGGTGACAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
DB 61 GACGTTAAAGTTCCCGGCGGTGACAGATCGTTGGTGGAGTTTACTTTGTTCGCGCGAG 120
QY 120 GCGCCCGAGTTGGGTGCGTGCAGTGGCGAGCTTCCGAGCGGTCCGCAACCTCGCAGT 179
DB 121 GCGCCCGAGTTGGGTGCGTGCAGTGGCGAGCTTCCGAGCGGTCCGCAACCTCGTGC 180
QY 180 AGCGCGCAACCCATCCCGCGCGGTGACAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 239
DB 181 AGCGGTCAACCTATCCCGAGCGGTGACAGATCGTTGGTGGAGTTTACTTTGTTCGCGCGAG 240
QY 240 TACCCCTGGCCCCCTATATGGGAATGAGGCTGGGGTGGGAGGTTGGTCTCTGTCCTCCG 299
DB 241 TACCCCTGGCCCCCTCTATGGCAATGAGGCTGGGGTGGGAGGTTGGTCTCTGTCCTCT 300
QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCCAATGACCCCGCGCGAG 343
DB 301 CGCGGCTCTCGGCACTTGGGGCCCAATGATCCCGCGCGAG 344

RESULT 15
US-09-873-224-193
Sequence 193, Application US/09873224
Publication No. US20030064360A1
GENERAL INFORMATION:
APPLICANT: <Unknown>
TITLE OF INVENTION: New sequences of hepatitis C virus
genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
CORRESPONDENCE ADDRESS:
STREET: Industriepark Zwijnaarde 7, box 4
CITY: Ghent
COUNTRY: Belgium
ZIP: B-9052
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/873,224
FILING DATE: 05-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Innogenetics sa.
TELECOMMUNICATION INFORMATION:

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 12:08:31 ; Search time 82 Seconds
(without alignments)
2334.854 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atagacacattctctaacc.....aaatgaccccggcgcagga 345

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	43	12.5	549	3	US-08-441-971-60
3	43	12.5	549	3	US-08-221-653-60
4	43	12.5	549	3	US-08-442-144A-60
5	43	12.5	549	3	US-08-441-970-60
6	43	12.5	573	2	US-08-290-665A-141
7	43	12.5	573	4	US-09-194-949A-5
8	43	12.5	573	5	PCT-US95-10398-141
9	43	12.5	831	3	US-08-836-075A-65
10	40	11.6	573	2	US-08-290-665A-142
11	40	11.6	573	5	PCT-US95-10398-142
12	38	11.0	573	2	US-08-290-665A-136
13	38	11.0	573	5	PCT-US95-10398-136
14	35	10.1	573	2	US-08-290-665A-137
15	35	10.1	573	2	US-08-290-665A-138
16	35	10.1	573	5	PCT-US95-10398-139
17	35	10.1	573	5	PCT-US95-10398-137
18	35	10.1	573	5	PCT-US95-10398-138
19	35	10.1	573	5	PCT-US95-10398-139
20	35	10.1	803	1	US-08-157-235-1
21	35	10.1	803	1	US-08-157-235-2
22	35	10.1	803	1	US-08-157-235-3
23	35	10.1	803	1	US-08-157-235-4
24	34	9.9	573	2	US-08-290-665A-135
25	34	9.9	573	5	PCT-US95-10398-135
26	34	9.9	803	1	US-08-157-235-5
27	31	9.0	183	1	US-07-681-703B-21

28	31	9.0	183	2	US-08-407-410B-21	Sequence 21, Appl
29	31	9.0	183	2	US-08-485-500-21	Sequence 21, Appl
30	31	9.0	183	5	PCT-US91-02370-21	Sequence 21, Appl
31	31	9.0	270	1	US-07-681-703B-23	Sequence 23, Appl
32	31	9.0	270	2	US-08-407-410B-23	Sequence 23, Appl
33	31	9.0	270	2	US-08-485-500-23	Sequence 23, Appl
34	31	9.0	270	5	PCT-US91-02370-23	Sequence 23, Appl
35	31	9.0	273	1	US-07-681-703B-19	Sequence 19, Appl
36	31	9.0	273	2	US-08-407-410B-19	Sequence 19, Appl
37	31	9.0	273	2	US-08-485-500-19	Sequence 19, Appl
38	31	9.0	273	5	PCT-US91-02370-19	Sequence 19, Appl
39	31	9.0	306	2	US-08-537-811-35	Sequence 35, Appl
40	31	9.0	327	3	US-08-836-075A-1	Sequence 1, Appl
41	31	9.0	355	3	US-08-444-818-104	Sequence 104, App
42	31	9.0	355	3	US-08-444-818-106	Sequence 106, App
43	31	9.0	360	1	US-07-681-703B-17	Sequence 17, Appl
44	31	9.0	360	2	US-08-407-410B-17	Sequence 17, Appl
45	31	9.0	360	2	US-08-485-500-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1

US-08-836-075A-49

; Sequence 45, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESS: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 309 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-08-836-075A-49

Query Match	89.6%	Score 309	DB 3	Length 309
Best Local Similarity	100.0%	Pred.No. 9.2e-147		
Matches 309	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	ATGAGCACATTCCTTAACACACAAAGAAAACCAAAAGAACACCAACCCCGGCCACAGG	60	
Db	1	ATGAGCACATTCCTTAACACACAAAGAAAACCAAAAGAACACCAACCCCGGCCACAGG	60	
QY	61	ACGTTAAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTTACACGACGGG	120	
Db	61	ACGTTAAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTTACACGACGGG	120	
QY	121	GCCCCCAGTTGGGTGTGGGTGCGAGTGGCGGAAGACTTCCGAGCGGTGCGAACCTCGCAGTA	180	
Db	121	GCCCCCAGTTGGGTGTGGGTGCGAGTGGCGGAAGACTTCCGAGCGGTGCGAACCTCGCAGTA	180	
QY	181	GGCGCCAACCATCCCCAGGCGCGCGGACCCAGAGGCAGTCTCTGGGCTCAGGCCCGGGT	240	
Db	181	GGCGCCAACCATCCCCAGGCGCGCGGACCCAGAGGCAGTCTCTGGGCTCAGGCCCGGGT	240	
QY	241	ACCCTTGCGCCCTATATGGGAATGAGGGCTCGGGGTGGGCAGGGTGGTCTGTGTCCCGCG	300	
Db	241	ACCCTTGCGCCCTATATGGGAATGAGGGCTCGGGGTGGGCAGGGTGGTCTGTGTCCCGCG	300	
QY	301	GGCGCTCTC	309	
Db	301	GGCGCTCTC	309	

RESULT 2
US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Chia
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

ADDRESSEE: Wolf. Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA
ZID: 02310

; ZIP: 02210
; COMPUTER READABLE FORM;

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

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; OPERATING SYSTEM: MS-DOS Version 3.3

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; SOFTWARE: WordPerfect 5.1

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;
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 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: USC/08/441 871

APPLICATION NUMBER: US/08/441,371
FILING DATE: 16-MAY-1995

CLASSIFICATION: 435
FILING DATE: 10 MAR 1966

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

;
FILING DATE: 11/27/2008

APPLICATION NUMBER: US/07/881,528

FILING DATE: 07/697 326
APPLICATION NUMBER: 07/697 326

APPLICATION NUMBER: 07/837,320
FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C07271000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 720-3500

TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441

TELEX: EZEKIEL

; INFORMATION FOR SEQ ID NO: 60:

; SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
US-08-441-971-60

Query March 12.5% Score 43; DB 3; Length 549;
Best Local similarity 100.0%; Pred No. 2.1e-10;
March 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Query Match	12.5%	Score 43;	DB 3;	Length 549;
Best Local Similarity	100.0%	Pred. NO. 2.1e-12;		
Matches 43;	Conservative	0;	Mismatches 0;	Indels
211	CCGAGGGGAGATCTCTGGGCTCTAGCGCGGGTACCCCTTGGCCGCT	253		
212	CCGAGGGGAGATCTCTGGGCTCTAGCGCGGGTACCCCTTGGCCGCT	254		

RESULT 3
US-08-221-653-60
; Sequence 60, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts

```

/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02210
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch
/ COMPUTER: IBM compatible
/ OPERATING SYSTEM: MS-DOS Version 1
/ SOFTWARE: wordperfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/221,653
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/07/891,528
/

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FILING DATE: 07/697,326
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Jantluk, Anthony J.
 REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EEZKIEL
 INFORMATION FOR SEQ ID NO: 60:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 549 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: nac5
 WUS-08-221-653-60

Query Match	12.5%	Score 43	DB 3	Length 549
Best Local Similarity	100.0%	Fred.No. 2.a-12		
Matches 43	Conservative	Mismatches 0	Indels	
211	CCGAGGCGAGGCTCTGGGCTCAGCCCGGGTACCTTGGCCCT	253		
212	CCGAGGCGAGGCTCTGGGCTCAGCCCGGGTACCTTGGCCCT	254		

Qy 211 CCAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253

Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 4
US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
US-08-442-144A-60
Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCGAGGCGAGTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 5
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue

CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: nac5
US-08-441-970-60
Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 211 CCGAGGCGAGTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 6
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 211 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 7
US-09-194-949A-5
Sequence 5, Application US/09194949A
Patent No. 6653125
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949A
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/865,823
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FASSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.5%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 211 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 8
PCT-US95-10398-141
Sequence 141, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

QY 211 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCT 254

RESULT 9
US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON

```
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGCCCT 253
Db 227 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGCCCT 269

RESULT 10
US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; ZIP: 10154
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
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ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE: Z5
US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGCC 250
Db 212 CCGAGGCGAGGTCCTGGGCTCAGCCCGGCTACCCCTTGCC 251

RESULT 11
PCT-US95-10398-142
; Sequence 142, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
```

;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match 11.0%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CGAGGCGAGGTCCTGGGTCAGCCGGGTACCCCTGTCCTGGCC 250
|||
Db 212 CGAGGCGAGGTCCTGGGTCAGCCGGGTACCCCTGTCCTGGCC 251
|||

RESULT 12

US-08-290-665A-136
; Sequence 136, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND
;; APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 136:

SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:

ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGCTGCGGTGGGTCAGGCGGTGCTCTGTCTCC 298
|||
Db 262 AATGAGGCTGCGGTGGGTCAGGCGGTGCTCTGTCTCC 299
|||

RESULT 13

PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND
;; APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 136:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: S52

PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 5; Length 573;

Best Local Similarity 100.0%; Pred. No. 7.2e-10;

Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGCTGCGGTGGGTCAGGCGGTGCTCTGTCTCC 298
|||

Db 262 AATGAGGCTGCGGTGGGTCAGGCGGTGCTCTGTCTCC 299
|||

RESULT 14

US-08-290-665A-137

; Sequence 137, Application US/08290665A

; Patent No. 582852

; GENERAL INFORMATION:

;; APPLICANT: BURKH, J., MILLER, R.H. AND

;; APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 137:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: S2

US-08-290-665A-137

Query Match 10.1%; Score 35; DB 2; Length 573;

Best Local Similarity 100.0%; Pred. No. 2.4e-08;

Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 264 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 298

DB 265 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 299

RESULT 15

US-08-290-665A-138

Sequence 138. Application US/08290665A

Patent No. 5882552

GENERAL INFORMATION:

APPLICANT: BURKE, J., MILLER, R. H. AND

APPLICANT: PURCELL, R. H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 138:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: DK12

US-08-290-665A-138

Query Match 10.1%; Score 35; DB 2; Length 573;

Best Local Similarity 100.0%; Pred. No. 2.4e-08;

Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 264 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 298

DB 265 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 299

Search completed: August 17, 2004, 13:20:19

Job time : 83 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 13:12:42 ; Search time 356 Seconds
(without alignments)
4754.999 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence:

1 atgagacacttctaacc.....aaatgaccccgccgagga 345

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 3225727 seqs, 2453303834 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6451454

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09D_PUBCOMB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US09E_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	13	US-09-873-224-147
2	309	89.6	309	9	US-09-851-138-49
3	296	85.8	346	10	US-09-899-046-147
4	296	85.8	346	10	US-09-878-281-147
5	43	12.5	573	10	US-09-194-949-5
6	43	12.5	831	9	US-09-851-138-65
7	31	9.0	152	9	US-09-921-397-39
8	31	9.0	234	9	US-09-921-397-41
9	31	9.0	300	15	US-10-071-867-16
10	31	9.0	310	9	US-09-921-397-114
11	31	9.0	327	9	US-09-851-138-1
12	31	9.0	339	9	US-09-921-397-115
13	31	9.0	360	13	US-09-306-780-3
14	31	9.0	450	13	US-09-306-780-5

15	31	9.0	480	15	US-10-071-867-15	Sequence 15, Appl
16	31	9.0	483	13	US-09-306-780-7	Sequence 7, Appl
17	31	9.0	528	13	US-09-306-780-19	Sequence 19, Appl
18	31	9.0	540	16	US-10-150-283-2	Sequence 2, Appl
19	31	9.0	573	13	US-09-306-780-9	Sequence 9, Appl
20	31	9.0	708	16	US-10-365-620-57	Sequence 57, Appl
21	31	9.0	750	16	US-10-365-620-53	Sequence 53, Appl
22	31	9.0	843	13	US-09-306-780-11	Sequence 11, Appl
23	31	9.0	1380	16	US-10-365-620-59	Sequence 59, Appl
24	31	9.0	1422	16	US-10-365-620-55	Sequence 55, Appl
25	31	9.0	2025	13	US-10-387-336-8	Sequence 8, Appl
26	31	9.0	2031	13	US-10-387-336-7	Sequence 7, Appl
27	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl
28	31	9.0	2433	10	US-09-899-303-49	Sequence 49, Appl
29	31	9.0	2433	10	US-09-995-860-49	Sequence 49, Appl
30	31	9.0	2433	10	US-09-995-791-49	Sequence 49, Appl
31	31	9.0	2433	17	US-10-321-798-49	Sequence 49, Appl
32	31	9.0	9365	10	US-09-827-688-7	Sequence 7, Appl
33	31	9.0	9379	9	US-09-916-359-1	Sequence 1, Appl
34	31	9.0	9401	17	US-10-445-724-1	Sequence 1, Appl
35	31	9.0	9413	10	US-09-827-688-6	Sequence 6, Appl
36	31	9.0	9416	9	US-09-238-076-19	Sequence 19, Appl
37	31	9.0	9416	9	US-09-929-955-13	Sequence 13, Appl
38	31	9.0	9416	10	US-09-995-937-19	Sequence 19, Appl
39	31	9.0	9416	10	US-09-917-563-19	Sequence 19, Appl
40	31	9.0	9416	14	US-10-104-966-13	Sequence 13, Appl
41	31	9.0	9416	17	US-10-719-619-13	Sequence 13, Appl
42	31	9.0	9599	13	US-10-189-359-13	Sequence 13, Appl
43	31	9.0	9622	17	US-10-475-989-2	Sequence 2, Appl
44	31	9.0	9646	9	US-09-742-659-3	Sequence 3, Appl
45	31					

ALIGNMENTS

RESULT 1

US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA: US/09/873,224
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIORITY INFORMATION:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

```

; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match      100.0%; Score 345; DB 13; Length 345;
Best Local Similarity 100.0%; Pred. No. 5e-171;
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAACCAACCAACCCGGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAACCAACCAACCCGGCCACAGG 60
QY 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCAACCGAGG 120
Db 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCAACCGAGG 120
QY 121 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180
Db 121 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180
QY 181 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 240
Db 181 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 240
QY 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGCTTCTGTCCCCCG 300
Db 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGCTTCTGTCCCCCG 300
QY 301 GCGGCTCTCGCCCGTGTGGGCGCCCAATGACCCCGCGCAGGA 345
Db 301 GCGGCTCTCGCCCGTGTGGGCGCCCAATGACCCCGCGCAGGA 345

RESULT 2
US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUDYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 4.2e-152;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAACCAACCAACCCGGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACCAAGAAAGAAACCAAAAGAAACCAACCAACCCGGCCACAGG 60
QY 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCAACCGAGG 120
Db 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCAACCGAGG 120
QY 121 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180
Db 121 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGTA 180
QY 181 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGG 240
Db 181 GCGCCAGTGGGTGTCGTCAGTGCAGACATTCGAGCGGTTCGCAACCTCGCAGG 240
QY 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGCTTCTGTCCCCCG 300
Db 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGCTTCTGTCCCCCG 300
QY 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 3
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA

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```
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; US-09-899-046-147

Query Match
Best Local Similarity 100.0%; Pred. No. 2.8e-145; Length 346;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 110
QY 110 ACCACGACAGGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTCCGCA 169
Db 111 ACCACGACAGGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTCCGCA 170
QY 170 ACTTCGACGTAGGCGCCCAACCCATCCAGCGCGCGCCGAAACCCGAGGCGCAGTCTCTGGGC 229
Db 171 ACTTCGACGTAGGCGCCCAACCCATCCAGCGCGCGCCGAAACCCGAGGCGCAGTCTCTGGGC 230
QY 230 TCAGCCCGGGTACCCCTTGGCCCTTATATGGAAATGAGGGCTGCGGGTGGCAGGGTGGCT 289
Db 231 TCAGCCCGGGTACCCCTTGGCCCTTATATGGAAATGAGGGCTGCGGGTGGCAGGGTGGCT 290
QY 290 CTGTCTCCCGCGGGCTCTCGCCCGTCTGCGCGTCTGCGGGTGGCAGGGTGGCT 345
Db 291 CTGTCTCCCGCGGGCTCTCGCCCGTCTGCGCGTCTGCGGGTGGCAGGGTGGCT 346

RESULT 4
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; US-09-878-281-147

Query Match
85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2.8e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Best Local Similarity 100.0%; Pred. No. 2.8e-145;
; Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGACGTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 110
QY 110 ACCACGACAGGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTCCGCA 169
Db 111 ACCACGACAGGGGCCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTCCGCA 170
QY 170 ACTTCGACGTAGGCGCCCAACCCATCCAGCGCGCGCCGAAACCCGAGGCGCAGTCTCTGGGC 229
Db 171 ACTTCGACGTAGGCGCCCAACCCATCCAGCGCGCGCCGAAACCCGAGGCGCAGTCTCTGGGC 230
QY 230 TCAGCCCGGGTACCCCTTGGCCCTTATATGGAAATGAGGGCTGCGGGTGGCAGGGTGGCT 289
Db 231 TCAGCCCGGGTACCCCTTGGCCCTTATATGGAAATGAGGGCTGCGGGTGGCAGGGTGGCT 290
QY 290 CTGTCTCCCGCGGGCTCTCGCCCGTCTGCGCGTCTGCGGGTGGCAGGGTGGCT 345
Db 291 CTGTCTCCCGCGGGCTCTCGCCCGTCTGCGCGTCTGCGGGTGGCAGGGTGGCT 346

RESULT 5
US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
; US-09-194-949-5

Query Match
12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.5e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 6
US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
```

```
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65
Query Match 12.5%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.4e-12; Indels 0; Gaps 0;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CGAGGGCAGGTCCTGGGTCAGCCGGGTACCCCTTGCCCT 253
Db 227 CGAGGGCAGGTCCTGGGTCAGCCGGGTACCCCTTGCCCT 269

RESULT 7
US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39
Query Match 9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 5.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 224 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 8
US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41
Query Match 9.0%; Score 31; DB 9; Length 234;
Best Local Similarity 100.0%; Pred. No. 5.5e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 186 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 216

RESULT 9
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreaGene-USA-1
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US/10/071,867
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE: HCV core-100
; OTHER INFORMATION: HCV core-100
US-10-071-867-16
Query Match 9.0%; Score 31; DB 15; Length 300;
Best Local Similarity 100.0%; Pred. No. 5.4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 253
Db 224 CCTGGGCTCAGCCGGGTACCCCTTGCCCT 254

RESULT 10
US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
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Query Match          9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      211 CCGAGGGCAGGCTCTGGGCTCAGCCCGGGTA 241
      |||
      212 CCGAGGGCAGGCTCTGGGCTCAGCCCGGGTA 242
      |||

RESULT 12
US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBERGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 115
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115

Query Match          9.0%; Score 31; DB 9; Length 339;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      223 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
      |||
      224 CTTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
      |||

RESULT 13
US-09-306-780-3
; Sequence 3, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINOEI
; UENO, EIICHI
; ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
; IMMUNOASSAY USING THE POLYPEPTIDE.

NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/306,780
FILING DATE: 07-May-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/841,657A
FILING DATE: 30-APR-1997

```

```
/ APPLICATION NUMBER: JP 8-134444
/ FILING DATE: 01-MAY-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: OBLON, NORMAN F.
/ REGISTRATION NUMBER: 24,618
/ REFERENCE/DOCKET NUMBER: 2084-033-0
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (703) 413-3000
/ TELEFAX: (703) 413-2220
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 360 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: other nucleic acid
/ DESCRIPTION: /desc = "synthetic DNA"
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..360
/ SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3

Query Match          9.0%; Score 31; DB 13; Length 360;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 14
US-09-306-780-5
/ Sequence 5, Application US/09306780
/ Publication No. US20010051336A1
/ GENERAL INFORMATION:
/ APPLICANT: TAKEMURA, FUMINORI
/ UENO, EIICHI
/ ITOH, SATORU
/ TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
/ OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
/ IMMUNOASSAY USING THE POLYPEPTIDE.
/ NUMBER OF SEQUENCES: 20
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
/ P.C.
/ STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
/ CITY: ARLINGTON
/ STATE: VA
/ COUNTRY: U.S.A.
/ ZIP: 22202
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/306,780
/ FILING DATE: 07-May-1999
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/841,657A
/ FILING DATE: 30-APR-1997
/ APPLICATION NUMBER: JP 8-134444
/ FILING DATE: 01-MAY-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: OBLON, NORMAN F.
/ REGISTRATION NUMBER: 24,618
/ REFERENCE/DOCKET NUMBER: 2084-033-0
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (703) 413-3000
/ TELEFAX: (703) 413-2220

/ APPLICATION NUMBER: JP 8-134444
/ FILING DATE: 01-MAY-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: OBLON, NORMAN F.
/ REGISTRATION NUMBER: 24,618
/ REFERENCE/DOCKET NUMBER: 2084-033-0
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (703) 413-3000
/ TELEFAX: (703) 413-2220

/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 450 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: other nucleic acid
/ DESCRIPTION: /desc = "synthetic DNA"
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..450
/ SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-306-780-5

Query Match          9.0%; Score 31; DB 13; Length 450;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 15
US-10-071-867-15
/ Sequence 15, Application US/10071867
/ Publication No. US20030166267A1
/ GENERAL INFORMATION:
/ APPLICANT: Creagene Inc.
/ TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
/ FILE REFERENCE: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
/ FILE REFERENCE: Creagene-USA-1
/ CURRENT APPLICATION NUMBER: US/10/071,867
/ CURRENT FILING DATE: 2002-02-08
/ PRIOR APPLICATION NUMBER: KR 2001-6229
/ PRIOR FILING DATE: 2001-02-08
/ NUMBER OF SEQ ID NOS: 95
/ SOFTWARE: Kopatentin 1.71
/ SEQ ID NO 15
/ LENGTH: 480
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: HCV core-160
US-10-071-867-15

Query Match          9.0%; Score 31; DB 15; Length 480;
Best Local Similarity 100.0%; Pred. No. 5.1e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

Search completed: August 17, 2004, 14:29:34
Job time : 357 secs
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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: August 10, 2004, 20:37:41 ; Search time 20.5 seconds

(without alignments)

1737.655 Million cell updates/sec

Title: US-09-873-224a-147

Perfect score: 639

Sequence: 1 atgagcacacttctctaaacc.....aaatgaccccgccgagga 345

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5

Ygapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODE=frame+n2p.model -DEV=xlp

-Q=/cgn2_1/USPTO_spool_p/US09873224/runat 10082004 170934 17629/app query.fasta_1.519

-DB=Issued Patents AA -OPT=fastan -SUFFIX=n2p.ra -MINMATCH=0.1 -LOOPEL=0

-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosu62 -TRANS=human40.cci

-LIST=45 -DOALIGN=200 -THR SCORE=50 -THR MAX=100 -THR MIN=0 -ALIGN=15

-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000

-USER=US09873224 -CGN1_1_27 @runat 10082004 170934 17629 -NCPUS=6 -ICPU=3

-NO MWAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG

-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6

-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*

2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*

3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*

4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*

5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*

6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	608	95.1	115	3	US-08-836-075A-50
2	588	92.0	191	2	US-08-290-665A-187
3	588	92.0	191	2	US-08-290-665A-188
4	588	92.0	191	2	US-08-290-665A-190
5	588	92.0	191	5	PCT-US95-10398-187
6	588	92.0	191	5	PCT-US95-10398-188
7	588	92.0	191	5	PCT-US95-10398-190
8	587	91.9	191	2	US-08-290-665A-189
9	587	91.9	191	5	PCT-US95-10398-189
10	574	89.8	191	2	US-08-290-665A-192
11	574	89.8	191	2	US-08-290-665A-193
12	574	89.8	191	2	US-08-290-665A-195

13	574	89.8	191	5	PCT-US95-10398-192	Sequence 192, App
14	574	89.8	191	5	PCT-US95-10398-193	Sequence 193, App
15	574	89.8	191	5	PCT-US95-10398-195	Sequence 195, App
16	571	89.4	319	3	US-08-836-075A-12	Sequence 12, Appl
17	571	89.4	319	4	US-08-835-886C-199	Sequence 199, App
18	571	89.4	319	4	US-08-974-690C-199	Sequence 199, App
19	570	89.2	191	2	US-08-290-665A-196	Sequence 196, App
20	570	89.2	191	5	PCT-US95-10398-196	Sequence 196, App
21	569	89.0	450	4	US-08-635-886C-181	Sequence 181, App
22	569	89.0	450	4	US-08-974-690C-181	Sequence 181, App
23	569	89.0	2894	2	US-08-466-975A-23	Sequence 23, Appl
24	569	89.0	2894	2	US-08-391-671A-23	Sequence 23, Appl
25	569	89.0	2894	3	US-08-467-902A-23	Sequence 23, Appl
26	569	89.0	2894	3	US-09-275-265-23	Sequence 23, Appl
27	569	89.0	2894	4	US-09-941-611-23	Sequence 23, Appl
28	568	88.9	182	4	US-10-104-966-2	Sequence 2, Appl
29	568	88.9	191	2	US-08-290-665A-156	Sequence 156, App
30	568	88.9	191	2	US-08-290-665A-157	Sequence 157, App
31	568	88.9	191	2	US-08-290-665A-158	Sequence 158, App
32	568	88.9	191	2	US-08-290-665A-159	Sequence 159, App
33	568	88.9	191	2	US-08-290-665A-160	Sequence 160, App
34	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
35	568	88.9	191	2	US-08-290-665A-197	Sequence 197, App
36	568	88.9	191	3	US-08-380-160-3	Sequence 3, Appl
37	568	88.9	191	5	PCT-US95-10398-156	Sequence 156, App
38	568	88.9	191	5	PCT-US95-10398-157	Sequence 157, App
39	568	88.9	191	5	PCT-US95-10398-158	Sequence 158, App
40	568	88.9	191	5	PCT-US95-10398-159	Sequence 159, App
41	568	88.9	191	5	PCT-US95-10398-160	Sequence 160, App
42	568	88.9	191	5	PCT-US95-10398-191	Sequence 191, App
43	568	88.9	191	5	PCT-US95-10398-197	Sequence 197, App
44	568	88.9	319	4	US-08-635-886C-217	Sequence 217, App
45	568	88.9	319	4	US-08-974-690C-217	Sequence 217, App

ALIGNMENTS

RESULT 1

US-08-836-075A-50

; Sequence 50, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: ARNOLD WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; FILING APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 50:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 115 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-836-075A-50

Alignment Scores:
 Pred. No.: 3 66e-50 Length: 115
 Score: 608.00 Matches: 114
 Percent Similarity: 99.13% Conservative: 0
 Best Local Similarity: 99.13% Mismatches: 1
 Query Match: 95.15% Indels: 1
 DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 1 ATGAGCACACTTCTTAACACCAAGAAAAACCAAAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
 QY 60 GACGTTAAGTTCACAGCGCGGTACAGTCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
 Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyValLeuProArgArg 40
 QY 120 GGCCCCAGTGGGTGGTGCAGTCGCAAGACTTCGACGGTCGCAACTCGCAGT 179
 Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
 QY 180 AGCGCCCAACCCATCCCGCGCGCCGCAACCGAGGCGAGTCCTGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGCGAGGGTGGCTCTCTCCCG 299
 Db 81 TyrProTrpProLeuTyArgAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGCGGCTCTCGCGCTGCTGGGCCCCAATGACCCCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 2

US-08-290-665A-187
 Sequence 187, Application US/08290665A
 Patent No. 5882852
 GENERAL INFORMATION:
 APPLICANT: BURKH, J., MILLER, R. H. AND
 APPLICANT: PURCELL, R. H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM: DISK
 MEDIUM TYPE: FLOPPY
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994

CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 187:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: HK10
 US-08-290-665A-187

Alignment Scores:
 Pred. No.: 3 19e-48 Length: 191
 Score: 588.00 Matches: 108
 Percent Similarity: 96.52% Conservative: 3
 Best Local Similarity: 93.91% Mismatches: 4
 Query Match: 92.02% Indels: 1
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 1 ATGAGCACACTTCTTAACACCAAGAAAAACCAAAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
 QY 60 GACGTTAAGTTCACAGCGCGGTACAGTCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
 Db 21 AspValLysPheProGlyGlyGlnLeValGlyValTyValLeuProArgArg 40
 QY 120 GGCCCCAGTGGGTGGTGCAGTCGCAAGACTTCGACGGTCGCAACTCGCAGT 179
 Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
 QY 180 AGCGCCCAACCCATCCCGCGCGCCGCAACCGAGGCGAGTCCTGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGCGAGGGTGGCTCTCTCCCG 299
 Db 81 TyrProTrpProLeuTyArgAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGCGGCTCTCGCGCTGCTGGGCCCCAATGACCCCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3

US-08-290-665A-188
 Sequence 188, Application US/08290665A
 Patent No. 5882852
 GENERAL INFORMATION:
 APPLICANT: BURKH, J., MILLER, R. H. AND
 APPLICANT: PURCELL, R. H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA

<p> ZIP: 10154 COMPUTER READABLE FORM: MEDIUM TYPE: FLOPPY DISK COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WORDPERFECT 5.1 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/290.665A FILING DATE: 15-AUG-1994 CLASSIFICATION: 435 ATTORNEY/AGENT INFORMATION: NAME: RICHARD W. BORK REGISTRATION NUMBER: 36,459 REFERENCE/DOCKET NUMBER: 2026-4116 TELECOMMUNICATION INFORMATION: TELEPHONE: (212) 758-4800 TELEFAX: (212) 751-6849 TELEX: 421792 INFORMATION FOR SEQ ID NO: 188: SEQUENCE CHARACTERISTICS: LENGTH: 191 amino acids TYPE: amino acid STRANDEDNESS: unknown TOPOLOGY: unknown ORIGINAL SOURCE: ORGANISM: homosapiens INDIVIDUAL ISOLATE: S52 US-08-290-665A-188 </p>	<p> Alignment Scores: Pred. No.: 3,198-48 Score: 588.00 Percent Similarity: 96.52% Best Local Similarity: 93.91% Query Match: 92.02% Gaps: 2 </p>	<p> Length: 191 Matches: 108 Conservative: 3 Mismatch: 4 Indels: 1 Gaps: 0 </p>
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US-09-873-224A-147 (1-345) X US-08-290-665A-190 (1-191)

Alignment Scores:

Pred. No.:	3.19e-48	Length:	191
Score:	588.00	Matches:	108
Percent Similarity:	96.52%	Conservative:	3
Best Local Similarity:	93.91%	Mismatches:	4
Query Match:	92.02%	Indels:	1
DB:	2	Gaps:	0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

QY	1	ATGAGCACACTTCCTAAACCAAAAGAAAACCAACCAAA-CCCGGCCACAG	59
DB	1	MetSerThrLeuProIysProGlnArgIysThrLysArgAsnThrIleArgArgProGln	20
QY	60	GACGTTAAAGTCCCGAGCGCGTCAGATCGTTGGTGAGTTTACGTCTACCGACGAGG	119
DB	21	AspValIysPheProGlyGlyGlnIleValGlyGlyValTyValLeuProArgArg	40
QY	120	GGCCCCAGTTCGGTGTGCGTCAGTCGCAAGACTTCGACGGTCGCAACTCGCAGT	179
DB	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
QY	180	AGCGGCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCCCGG	239
DB	61	ArgArgGlnProIleProIysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly	80
QY	240	TACCCCTTGGCCCCATATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCTCTCTGCCCG	299
DB	81	TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro	100
QY	300	CGCGGCTCTCGCGCTCGTGGGCGCAATGACCCCGCGCGAGG	344
DB	101	ArgGlySerArgProSerTrpGlyProAsnAspProArgArg	115

RESULT 4

US-08-290-665A-190

; Sequence 190, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUXH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

US-09-873-224A-147 (1-345) X US-08-290-665A-190 (1-191)

QY	1	ATGAGCACACTTCCTAAACCAAAAGAAAACCAACCAAA-CCCGGCCACAG	59
DB	1	MetSerThrLeuProIysProGlnArgIysThrLysArgAsnThrIleArgArgProGln	20
QY	60	GACGTTAAAGTCCCGAGCGCGTCAGATCGTTGGTGAGTTTACGTCTACCGACGAGG	119
DB	21	AspValIysPheProGlyGlyGlnIleValGlyGlyValTyValLeuProArgArg	40
QY	120	GGCCCCAGTTCGGTGTGCGTCAGTCGCAAGACTTCGACGGTCGCAACTCGCAGT	179
DB	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
QY	180	AGCGGCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCCCGG	239
DB	61	ArgArgGlnProIleProIysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly	80
QY	240	TACCCCTTGGCCCCATATATGGGAATGAGGCTCGCGGTGGGCGAGGTGGCTCTCTGCCCG	299
DB	81	TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro	100
QY	300	CGCGGCTCTCGCGCTCGTGGGCGCAATGACCCCGCGCGAGG	344
DB	101	ArgGlySerArgProSerTrpGlyProAsnAspProArgArg	115

RESULT 5

RESULT 5

PCT-US95-10398-188

US-09-873-224A-147 (1-345) x PCT-US95-10398-188 (1-191)

QY 1 ATGAGCACACTTCTTAACCAACAAGAATAAAACCACCAA-CGCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

QY 60 GCGTTAAGTGTCAGATCAGGTGCATTGCTGGAGTTACGCTACCAAGCAGG 119
Db 21 AspVallysPheProGlyGlyGlnIleValGlyValTyTrpAlaGlyTrpLeuProArg 40

QY 120 GCCCCCCAGTTGGTGTGCAGTCGCGAACAGACTTCGAGCGGTGCGCATCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 180 AGCGCCAACCATCCCAGGCGCGCGAACCAGGAGGAGTCTGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysalaargsergluglyArgserTrpAlaGlnProgly 80

QY 240 TACCCTTGCCCTATATGGGAATCAGGCTCGCGGTGGAGGTGCTCTGTCCTCCCG 299
Db 81 TyrProTpProLeuTyrglasyngluglyCyseGlyTrpAlaglyTrpLeuleuSerPro 100

QY 300 CGCGCTCTCGCCGTCGTGGGCGCAATAGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTripglyProasnaspProArgArg 115

RESULT 7

PCT-US95-10398-190

/ Sequence 190, Application PC/TUS9510398
/ GENERAL INFORMATION:
/ APPLICANT: BUKH, J., MILLER, R.H. AND
/ TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
/ TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
/ TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
/ TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
/ NUMBER OF SEQUENCES: 263
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: MORGAN & FINNEGAN
/ STREET: 345 PARK AVENUE
/ CITY: NEW YORK
/ STATE: NEW YORK
/ COUNTRY: USA
/ ZIP: 10154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: FLOPPY DISK
/ OPERATING SYSTEM: IBM PC COMPATIBLE
/ SOFTWARE: WORDPERFECT 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US95/10398
/ FILING DATE: 15-AUG-1995
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/086,428
/ FILING DATE: 29 JUNE 1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/290/665
/ FILING DATE: 15 AUGUST 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: RICHARD W. BORK
/ REGISTRATION NUMBER: 36,459
/ REFERENCE/DCKET NUMBER: 2026-4116
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212) 758-4800
/ TELEX: (212) 751-6849
/ INFORMATION FOR SEQ ID NO: 190:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 191 amino acids
/ TYPE: amino acid

PCT-US95-10398-190

US-09-873-224A-147 (1-345) x PCT-US95-10398-190 (1-191)

QY 1 ATGAGCACACTTCTTAACCAACAAGAATAAAACCACCAA-CGCCGGCCACAG 59
Db 1 Me-Ser-Thr-Leu-Pro-Lys-Pro-Gln-Arg-Lys-Thr-Lys-Arg-Asn-Thr-Ile-Arg-Arg-Pro-Gln 20

QY 60 GAGCTTAAGTTCACAGCGCGGTGCAGATCAGTGTGGTAGTTACGTCTACCAAGCAGG 119
Db 21 AspVallysPheProGlyGlyGlnIleValGlyValTyTrpAlaGlyTrpLeuProArg 40

QY 120 GGCCCCCAGTTGGTGTGCAGTCGCGAACAGACTTCGAGCGGTGCGCATCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 180 AGCGCCAACCATCCCAGGCGCGCGAACCAGGAGGAGTCTGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysalaargsergluglyArgserTrpAlaGlnProgly 80

QY 240 TACCCTTGCCCTATATGGGAATCAGGCTCGCGGTGGAGGTGCTCTGTCCTCCCG 299
Db 81 TyrProTpProLeuTyrglasyngluglyCyseGlyTrpAlaglyTrpLeuleuSerPro 100

QY 300 CGCGCTCTCGCCGTCGTGGGCGCAATAGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTripglyProasnaspProArgArg 115

RESULT 8

US-08-230-665A-189

/ Sequence 189, Application US/08290665A
/ Patent No. 5882852
/ GENERAL INFORMATION:
/ APPLICANT: BUKH, J., MILLER, R.H. AND
/ APPLICANT: PURCELL, R.H.
/ TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
/ TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
/ TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
/ TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
/ NUMBER OF SEQUENCES: 263
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: MORGAN & FINNEGAN
/ STREET: 345 PARK AVENUE
/ CITY: NEW YORK
/ STATE: NEW YORK
/ COUNTRY: USA
/ ZIP: 10154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: FLOPPY DISK
/ COMPUTER: IBM PC COMPATIBLE
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: WORDPERFECT 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/290,665A
/ FILING DATE: 15-AUG-1994
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: RICHARD W. BORK
/ REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 189:

SEQUENCE CHARACTERISTICS:

LENGTH: 191 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

ORGANISM: unknown

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: S2

US-08-290-665A-189

Alignment Scores: 191
Pred. No.: 3,97e-48
Score: 587.00
Percent Similarity: 96.52%
Best Local Similarity: 93.04%
Query Match: 91.86%
Indels: 1
Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-189 (1-191)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 60 GAGTTAAGTTCCAGCGCGGTGAGTCGATCGTTGGAGTTTACGTCTACACGCAGG 119
Db 21 AspileLysPheProGlyGlyGlnIleValGlyValTyValLeuProArg 40
QY 120 GGGCCCCAGTTGGGTGGGTGAGTCGAGTCGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCACACCAATCCCGAGCGCGCGCCGCAACCGAGCGAGTCTCTGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyGlyAsnGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9

PCT-US95-10398-189

Sequence 189, Application PC/TUS9510398

GENERAL INFORMATION:

APPLICANT: BURK, J., MILLER, R. H. AND

APPLICANT: PURCELL, R. H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESS: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 189:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S2
PCT-US95-10398-189

Alignment Scores: 191
Pred. No.: 3,97e-48
Score: 587.00
Percent Similarity: 96.52%
Best Local Similarity: 93.04%
Query Match: 91.86%
Indels: 1
Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-189 (1-191)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 60 GAGTTAAGTTCCAGCGCGGTGAGTCGATCGTTGGAGTTTACGTCTACACGCAGG 119
Db 21 AspileLysPheProGlyGlyGlnIleValGlyValTyValLeuProArg 40
QY 120 GGGCCCCAGTTGGGTGGGTGAGTCGAGTCGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCACACCAATCCCGAGCGCGCGCCGCAACCGAGCGAGTCTCTGGCTCAGCCCGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyGlyAsnGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTGTGGGCGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 10

US-08-290-665A-192

Sequence 192, Application US/08290665A

Patent No. 582852

GENERAL INFORMATION:

APPLICANT: BURK, J., MILLER, R. H. AND

APPLICANT: PURCELL, R. H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 192:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z8
US-08-290-665A-192

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

Qy	1	ATGAGCACACTTCTCTAAACCAACCAAGAAAAACCAACCAACCC-CCGCCACAG	59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet	20
Qy	60	GACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACACGACG	119
Db	21	AspValLysPheProGlyGlyGlnIleValGlyGlyValtyrLeuLeuProArg	40
Qy	120	GGCCCCCAGTTGGGTGTCGTCGACGTGCGAAGACTTCCGAGCGGTCCCACTCGCAGT	179
Db	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg	60
Qy	180	AGGCCCAACCATCCCGCGCGCGCCGACACCGAGCGGAGGTCTGGGCTACCCCGG	239
Db	61	ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnPro	80
Qy	240	TACCTTCGGCCCTATATGGGAATGAGGCTCGCGGTGGGAGGAGGTGCTCTCCCGC	299
Db	81	TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSer	100
Qy	300	CGCGCTCTCCCGCTCTGGGGCCCAATACCCCGCGCGCAGG	344
Db	101	ArgGlySerArgProSerTrpGlyProAsnAspProArgArg	115

RESULT 11
US-08-290-665A-193
Sequence 193, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF HEPATITIS C VIRUS
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 193:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

Qy	1	ATGAGCACACTTCTCTAAACCAACCAAGAAAAACCAACCAACCC-CCGCCACAG	59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet	20
Qy	60	GACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACACGACG	119
Db	21	AspValLysPheProGlyGlyGlnIleValGlyGlyValtyrLeuLeuProArg	40
Qy	120	GGCCCCCAGTTGGGTGTCGTCGACGTGCGAAGACTTCCGAGCGGTCCCACTCGCAGT	179
Db	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg	60
Qy	180	AGGCCCAACCATCCCGCGCGCGCCGACACCGAGCGGAGGTCTGGGCTACCCCGG	239
Db	61	ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnPro	80

QY 240 TACCTTGGCCCTATATGGGAATAGGCTGGGGTGGGCGAGGGTCTCTGTCTCCCG 299
 Db 81 TyProtrpProLeuTyGlyAenGluGlyCySgLyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGGGCTCTCGCCCGTCTGGTGGGCCCAAAATGACCCCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 12

US-08-290-665A-195
 ; Sequence 195, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 195:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: Z6
 ; US-08-290-665A-195

Alignment Scores:
 Pred. No.: 6.88e-47 Length: 191
 Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)
 QY 1 ATGACGACACTTCTTAAACACCAAGAAACCAAAAGAAACCAACCC-CGGCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 60 GACGTTAACTCCACGCGCGTACAGTCTGGTGGAGTTTACGTGTACCACGAGG 119
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Db 21 AspVallysPheProGlyGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
 QY 120 GGCCCCCAGTTGGGTGTGGTGGCAGTGGCAAGACTTCCGAGCGGTCCGACCTCGCAGT 179
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
 QY 180 AGGGCCCAACCCATCCCGAGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCTATATGGGAATAGGCTGGGGTGGGCGAGGGTCTCTGTCTCCCG 299
 Db 81 TyProtrpProLeuTyGlyAenGluGlyCySgLyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGGGCTCTCGCCCGTCTGGTGGGCCCAAAATGACCCCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 13

PCT-US95-10398-192
 ; Sequence 192, Application PC/TUS9510398
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/10398
 ; FILING DATE: 15-AUG-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/086,428
 ; FILING DATE: 29 JUNE 1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/290/665
 ; FILING DATE: 15 AUGUST 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 192:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: Z8
 ; PCT-US95-10398-192

Alignment Scores:
 Pred. No.: 6.88e-47 Length: 191
 Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)
 QY 1 ATGACGACACTTCTTAAACACCAAGAAACCAAAAGAAACCAACCC-CGGCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 60 GACGTTAACTCCACGCGCGTACAGTCTGGTGGAGTTTACGTGTACCACGAGG 119
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Alignment Scores:
 Pred. No.: 6.88e-47 Length: 191
 Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 2 Gaps: 0

US-08-290-665A-195
 QY 1 ATGACGACACTTCTTAAACACCAAGAAACCAAAAGAAACCAACCC-CGGCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 60 GACGTTAACTCCACGCGCGTACAGTCTGGTGGAGTTTACGTGTACCACGAGG 119
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-192 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAAAAGAAACCAACCC-CGGCCACAG 59
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgAProMet 20
QY 60 GACGTTAAGTCCAGCGCGCGTCAGATCGTGGTGGAGTTACGTGTACACACGAGG 119
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCCAACCCATCCCGAGCGCGCCGAAACCGAGGCGAGTCTGGGCTCAGCCCGG 239
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGGCTCTCTCCCG 299
DB 81 TyrProTrpProLeuTyArgLysGlnGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCAAATGACCCCGGCGCAGG 344
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 14

PCT-US95-10398-193
; Sequence 193, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849

; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-193

Alignment Scores:

Pred. No.: 6,888-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-193 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAAAAGAAACCAACCC-CGGCCACAG 59
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgAProMet 20
QY 60 GACGTTAAGTCCAGCGCGCGTCAGATCGTGGTGGAGTTACGTGTACACACGAGG 119
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCCCAACCCATCCCGAGCGCGCCGAAACCGAGGCGAGTCTGGGCTCAGCCCGG 239
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCGAGGTGGCTCTCTCCCG 299
DB 81 TyrProTrpProLeuTyArgLysGlnGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCAAATGACCCCGGCGCAGG 344
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15

PCT-US95-10398-195
; Sequence 195, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z6
PCT-US95-10398-195

Alignment Scores:
Pred. No.: 6,88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-195 (1-191)

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QY 1 ATGAGCACACTTCTAAACCAACAAAGAAACCAACCAACCC-CGGCCACAG 59
|||
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
|||
QY 60 GACGTTAAGTCCAGCGCGGTGAGTTCGTTGGTGGAGTTTACGTGTACACGCGAGG 119
|||
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
|||
QY 120 GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAGACTTCCGAGCGGTGCAACTCGCAGT 179
|||
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
|||
QY 180 AGCGGCACACCATCCAGCGCGCGCCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGGG 239
|||
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
|||
QY 240 TACCTTGGCCCTATATGGGAATAGGGGTGCGGTGGGCGAGGGTGGCTCCTGTCCCGG 299
|||
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
|||
QY 300 CGCGGCTCTCGCCCGCTGCGGGGCCCAATGACCCCGCGCGCAGG 344
|||
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
|||
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Search completed: August 10, 2004, 20:43:41
Job time : 22.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: August 10, 2004, 20:41:57 ; Search time 43.5 Seconds
(without alignments)
4975.660 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccggcgagga 345

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 2582470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO_spool_p/US09873224/runat_10082004_170936_17665/app_query.fasta_1.519
-DB=Published Applications AA -QFMT=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blsum62
-TRANS=human40.cgi -LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09873224@cgn_1_1_13 @runat_10082004_170936_17665
-NCPU=6 -ICPU=3 -NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA.*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description

1	617	96.6	115	12	US-09-873-224-148	Sequence 148, App
2	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
3	608	95.1	115	9	US-09-899-046-148	Sequence 148, App
4	608	95.1	115	10	US-09-878-281-148	Sequence 148, App
5	581	90.9	189	12	US-10-450-649-9	Sequence 9, Appl
6	575	90.0	235	15	US-10-365-620-56	Sequence 58, Appl
7	575	90.0	249	15	US-10-365-620-54	Sequence 60, Appl
8	575	90.0	459	15	US-10-365-620-60	Sequence 54, Appl
9	575	90.0	473	15	US-10-365-620-56	Sequence 56, Appl
10	571	89.4	130	14	US-10-268-569-19	Sequence 19, Appl
11	571	89.4	319	9	US-09-851-138-12	Sequence 12, Appl
12	571	89.4	319	9	US-10-651-185-199	Sequence 199, App
13	569	89.0	450	12	US-10-651-185-181	Sequence 181, App
14	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
15	569	89.0	2894	14	US-10-044-995-23	Sequence 23, Appl
16	568	88.9	151	14	US-10-292-129-14	Sequence 14, Appl
17	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
18	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
19	568	88.9	182	16	US-10-719-619-2	Sequence 2, Appl
20	568	88.9	319	12	US-10-651-185-217	Sequence 217, App
21	568	88.9	450	12	US-10-651-165-179	Sequence 179, App
22	568	88.9	450	12	US-10-651-165-180	Sequence 180, App
23	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
24	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
25	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
26	568	88.9	3011	9	US-09-747-413-20	Sequence 20, Appl
27	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
28	568	88.9	3011	12	US-10-189-359-14	Sequence 14, Appl
29	568	88.9	3011	12	US-10-296-734-406	Sequence 406, App
30	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
31	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
32	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
33	568	88.9	3011	15	US-10-328-937-3	Sequence 3, Appl
34	568	88.9	3011	16	US-10-719-619-1	Sequence 1, Appl
35	568	88.9	3012	9	US-09-238-076-2	Sequence 2, Appl
36	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
37	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl
38	567	88.7	117	9	US-09-851-138-28	Sequence 28, Appl
39	567	88.7	117	12	US-10-651-185-225	Sequence 225, App
40	567	88.7	424	14	US-10-173-480-28	Sequence 28, Appl
41	566	88.6	166	10	US-09-899-046-194	Sequence 194, App
42	566	88.6	166	12	US-09-878-281-194	Sequence 194, App
43	566	88.6	166	12	US-09-873-224-194	Sequence 194, App
44	565	88.4	161	12	US-09-306-780-8	Sequence 8, Appl
45	565	88.4	281	12	US-09-306-780-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1

US-09-873-224-148 Application US/09873224
; Sequence 148
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
STREET: Industriepark Zwijnaarde 7, box 4
CITY: Ghent
COUNTRY: Belgium
ZIP: B-9052
; COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Innogenetics sa.
TELEPHONE: 00 32 9 241 07 11
TELEFAX: 00 32 9 241 07 99
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 148:

Alignment Scores:
Pred. No.: 5,19e-47 Length: 115
Score: 617.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 96.56% Indels: 0
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)

QY 1 ATAGACACTTCTTAACACAAAGAAACCAAGAAACCAACCCCGCCACAGG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
QY 61 ACCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGTTCAGTTCACGACGACGAGG 120
Db 21 ThrLeuSerSerGlnAlaValArgSerLeuValGluPheThrCysTyrHisAlaGly 40
QY 121 GCGCCAGTGTGTGCGTGCAGTGCAGAGATTCGAGCGGTGCACCTCGCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGCCCAACCCATCCAGCGCGCGGACGAGGCGAGGTCCTGGGCTCAGCCCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTTGGCCCTATATGGGAATGAGGCTGCGGTGGGACAGGTGCTCTGTCTCCCGC 300
Db 81 ThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlyGlnGlyGlySerCysProArg 100
QY 301 GCGCTCTCGCGTGTGGGCGCCAAATGACCCCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2

US-09-851-138-50
Sequence 50, Application US/09851138
Publication No. US20020193508A1
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 50:

Alignment Scores:
Pred. No.: 3,34e-46 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAGAAACCAACCCCGCCACAGG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACACAGG 119
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyrValLeuProArgArg 40
QY 120 GCGCCAGTGTGTGCGTGCAGTGCAGCGGCAAGACTTCGAGCGGTCCGACCTCCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerTrpAlaGlnProGly 60
QY 180 AGGCGCCAAACCATCCCGCGCGGCGGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProLysProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGGACAGGTGCTCTGTCTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 GCGCGCTCTCGCGTGTGGGCGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3

US-09-899-046-148
Sequence 148, Application US/09899046
Publication No. US20030008274A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,046


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; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 60
; LENGTH: 459
; TYPE: PRT
; ORGANISM: HCV Core-TBD protein
US-10-365-620-60

Alignment Scores:
Pred. No.: 3.39e-43 Length: 459
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-60 (1-459)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTACGTCTACCAACGAGG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyValTyLeuLeuProArgArg 70
QY 120 GGCCGCCAACCATCCCGAGCGCGGTCCAGTGGCGCAAGACTCCGAGCGGTCCGACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 180 AGCGGCCAACCATCCCGAGCGCGGTCCAGTGGCGCAAGACTCCGAGCGGTCCGACCTCGCAGT 239
Db 91 ArgGlySerArgProSerTrpGlyProThrArgLysThrSerGluArgSerGlnProArgGly 90
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGCGAGTCTGGGTTCAGCCCGGG 239
Db 111 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlnProGly 110
QY 300 CGCGCTCTCCCGTCTGGTGGCGCAACATGACCCCGCGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrArgLysThrSerGluArgSerGlnProArgGly 145

RESULT 9
US-10-365-620-56
; Sequence 56, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1Jaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656,0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
; LENGTH: 473
; TYPE: PRT
; ORGANISM: ORF of HCV Core-TBD protein
US-10-365-620-56

Alignment Scores:
Pred. No.: 3.39e-43 Length: 473
Score: 575.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 89.36% Indels: 1
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-569-19 (1-130)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyLeuLeuProArgArg 40
QY 120 GGCCGCCAACCATCCCGAGCGCGGTCCAGTGGCGCAAGACTCCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 7.11e-43 Length: 130
Score: 571.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 89.36% Indels: 1
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyLeuLeuProArgArg 40
QY 120 GGCCGCCAACCATCCCGAGCGCGGTCCAGTGGCGCAAGACTCCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
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; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/941.611
; FILING DATE: 30-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: 1995-02-21
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-941-611-23

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Alignment Scores:
Pred. No.: 1.33e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
DB: 9 Gaps: 0

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US-09-873-224A-147 (1-345) x US-09-941-611-23 (1-2894)

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QY 1 ATGAGCACACTTCTTAACACCAAGAAACAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GAGCTTAAGTTCCAGCGCGCTCAGATCGTTGGTGGAGTTTACGTGTACCAACGACG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrLeuLeuProArg 40
QY 120 GGGCCCCAGTTGGTGTGTCAGTCCGACAGACTTCCAGCGGTCCGAACTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCCGACCAACCGAGGCGAGTCTCTGGGCTCAGCGCCGG 239
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 240 TACCCTTGGCCCTATATGGGATGAGGCTCGGGGTGGGCGAGGTGGCTCTCTGTCGCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGACCCCGCGCGAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115

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RESULT 15

US-10-044-995-23

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; Sequence 23, Application US/10044995
; Publication No. US20030049685A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWUN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23

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Alignment Scores:
Pred. No.: 1.33e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
DB: 14 Gaps: 0

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US-09-873-224A-147 (1-345) x US-10-044-995-23 (1-2894)

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QY 1 ATGAGCACACTTCTTAACACCAAGAAACAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProGln 20
QY 60 GAGCTTAAGTTCCAGCGCGCTCAGATCGTTGGTGGAGTTTACGTGTACCAACGACG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrLeuLeuProArg 40
QY 120 GGGCCCCAGTTGGTGTGTCAGTCCGACAGACTTCCGAGCGGTCCGAACTCGCAGT 179

```

```
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGCGCCCAACCCATCCCGAGGGCGCGCCGAAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 240 TACCCCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCGAGGTGGCTCCTGTCCTCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCAAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
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Search completed: August 10, 2004, 20:52:22
Job time : 46.5 secs

Blank

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: August 10, 2004, 20:42:52 ; Search time 18 Seconds
(without alignments)
1978.996 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccgcgagga 345

Scoring table:

OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 399414 seqs, 51625971 residues

Word size: 1

Total number of hits satisfying chosen parameters: 663654

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-DB=Issued Patents AA -OPMT=fastan -SUFFIX=olin2p.ra1 -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR_MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09873224.ecgn 1 1 27 @runat_10082004_171006_17824 -NCFU=6 -ICPU=3
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FCGAPOP=6
-FCGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98	85.2	115	3	US-08-836-075A-50
2	83	72.2	100	4	US-08-635-886C-233
3	83	72.2	100	4	US-08-974-690C-233
4	44	38.3	124	1	US-08-244-116B-15
5	44	38.3	191	2	US-08-290-665A-187
6	44	38.3	191	2	US-08-290-665A-188
7	44	38.3	191	2	US-08-290-665A-189
8	44	38.3	191	2	US-08-290-665A-190
9	44	38.3	191	2	US-08-290-665A-191
10	44	38.3	191	2	US-08-290-665A-192
11	44	38.3	191	2	US-08-290-665A-193
12	44	38.3	191	2	US-08-290-665A-195

13	44	38.3	191	2	US-08-290-665A-196	Sequence 196, App
14	44	38.3	191	2	US-08-290-665A-197	Sequence 197, App
15	44	38.3	191	5	PCT-US95-10398-187	Sequence 187, App
16	44	38.3	191	5	PCT-US95-10398-188	Sequence 188, App
17	44	38.3	191	5	PCT-US95-10398-189	Sequence 189, App
18	44	38.3	191	5	PCT-US95-10398-190	Sequence 190, App
19	44	38.3	191	5	PCT-US95-10398-191	Sequence 191, App
20	44	38.3	191	5	PCT-US95-10398-192	Sequence 192, App
21	44	38.3	191	5	PCT-US95-10398-193	Sequence 193, App
22	44	38.3	191	5	PCT-US95-10398-195	Sequence 195, App
23	44	38.3	191	5	PCT-US95-10398-196	Sequence 196, App
24	44	38.3	191	5	PCT-US95-10398-197	Sequence 197, App
25	44	38.3	319	4	US-08-635-886C-217	Sequence 217, App
26	44	38.3	319	4	US-08-635-886C-219	Sequence 219, App
27	44	38.3	319	4	US-08-974-690C-217	Sequence 217, App
28	44	38.3	319	4	US-08-974-690C-219	Sequence 219, App
29	37	32.2	191	2	US-08-290-665A-194	Sequence 194, App
30	37	32.2	191	5	PCT-US95-10398-194	Sequence 194, App
31	34	29.6	42	3	US-08-380-160-10	Sequence 10, Appl
32	34	29.6	46	1	US-08-262-037-27	Sequence 27, Appl
33	34	29.6	56	1	US-08-262-037-28	Sequence 28, Appl
34	34	29.6	61	1	US-08-262-037-29	Sequence 29, Appl
35	34	29.6	89	1	US-07-681-703B-24	Sequence 24, Appl
36	34	29.6	89	2	US-08-407-410B-24	Sequence 24, Appl
37	34	29.6	89	2	US-08-485-500-24	Sequence 24, Appl
38	34	29.6	89	5	PCT-US91-02370-24	Sequence 24, Appl
39	34	29.6	119	1	US-07-681-703B-18	Sequence 18, Appl
40	34	29.6	119	2	US-08-407-410B-18	Sequence 18, Appl
41	34	29.6	119	2	US-08-485-500-18	Sequence 18, Appl
42	34	29.6	119	5	PCT-US91-02370-18	Sequence 18, Appl
43	34	29.6	120	4	US-08-850-328-2	Sequence 2, Appl
44	34	29.6	144	3	US-08-444-818-103	Sequence 103, Appl
45	34	29.6	150	1	US-07-681-703B-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1

US-08-836-075A-50

; Sequence 50, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEBRT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF INVENTIONS: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 50:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 115 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-836-075A-50

Alignment Scores:
 Pred. No.: 5,09e-83 Length: 115
 Score: 98.00 Matches: 98
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 85.22% Indels: 0
 DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyrValLeu 37
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
 QY 171 CTTGCGAGTAGGGCCCAACCCATCCCGAGCGCGCGGACCGAGCGGAGTCTGGGCT 230
 DB 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
 QY 231 CAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGCGTGGCGGTGGCGAGGTGGCTC 290
 DB 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
 QY 291 CTGTCCCGCGGGCTCTCCCGTGTGGGGCCCAAAATGACCCCGGGCGAGG 344
 DB 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 2

US-08-835-886C-233
 ; Sequence 233, Application US/08635886C
 ; Patent No. 6555114
 ; GENERAL INFORMATION:
 ; APPLICANT: LEROUX-ROELS, Geert
 ; APPLICANT: DELEYS, Robert
 ; APPLICANT: MAERTENS, Geert
 ; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
 ; FILE REFERENCE: 2752-18
 ; CURRENT APPLICATION NUMBER: US/08/635,886C
 ; CURRENT FILING DATE: 1996-04-25
 ; PRIOR APPLICATION NUMBER: PCT/EP94/03555
 ; PRIOR FILING DATE: 1994-10-28
 ; PRIOR APPLICATION NUMBER: EP 93402718.6
 ; PRIOR FILING DATE: 1993-11-04
 ; NUMBER OF SEQ ID NOS: 286
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 233
 ; LENGTH: 100
 ; TYPE: PRT
 ; ORGANISM: hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (17)..(17)
 ; OTHER INFORMATION: Xaa is any amino acid
 US-08-835-886C-233

Alignment Scores:
 Pred. No.: 4.51e-69 Length: 100
 Score: 83.00 Matches: 83
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 72.17% Indels: 0
 DB: 4 Gaps: 0

Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 72.17% Indels: 0
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyrValLeu 37
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
 QY 171 CTTGCGAGTAGGGCCCAACCCATCCCGAGCGCGCGGACCGAGCGGAGTCTGGGCT 230
 DB 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
 QY 231 CAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGCGTGGCGGTGGCGAGGTGGCTC 290
 DB 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
 QY 291 CTGTCCCGCGG 299
 DB 98 LeuSerPro 100

RESULT 3

US-08-974-690C-233
 ; Sequence 233, Application US/08974690C
 ; Patent No. 6613333
 ; GENERAL INFORMATION:
 ; APPLICANT: LEROUX-ROELS, Geert
 ; APPLICANT: DELEYS, Robert
 ; APPLICANT: MAERTENS, Geert
 ; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
 ; FILE REFERENCE: 2551-94
 ; CURRENT APPLICATION NUMBER: US/08/974,690C
 ; CURRENT FILING DATE: 1997-11-19
 ; PRIOR APPLICATION NUMBER: PCT/EP94/03555
 ; PRIOR FILING DATE: 1994-10-28
 ; PRIOR APPLICATION NUMBER: EP 93402718.6
 ; PRIOR FILING DATE: 1993-11-04
 ; NUMBER OF SEQ ID NOS: 286
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 233
 ; LENGTH: 100
 ; TYPE: PRT
 ; ORGANISM: hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (17)..(17)
 ; OTHER INFORMATION: Xaa is any amino acid
 US-08-974-690C-233

Alignment Scores:
 Pred. No.: 4.51e-69 Length: 100
 Score: 83.00 Matches: 83
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 72.17% Indels: 0
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyrValLeu 37
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

Qy 171 CCTCGCAGTAGCCCAACCCATCCCGAGGCGCGCGAACCAGAGGCGAGGTCTCGGCT 230
 Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
 Qy 231 CAGCCCGGTACCTTGGCCCTATATGGGATGAGGCTCGCGGTGGCGAGGCTGCTC 290
 Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
 Qy 291 CTGTCCTCCG 299
 Db 98 LeuSerPro 100

RESULT 4
 US-08-244-116B-15
 ; Sequence 15, Application US/08244116B
 ; Patent No. 5763159
 ; GENERAL INFORMATION:
 ; APPLICANT: Simmonds, Peter
 ; APPLICANT: Chan, Shiu-Wan
 ; APPLICANT: Yap, Peng L.
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 ; STREET: 1211 East Morehead Street
 ; CITY: Charlotte
 ; STATE: No. 5763159th Carolina
 ; COUNTRY: United States
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0. Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/244,116B
 ; FILING DATE: 15-JUL-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB92/02143
 ; FILING DATE: 20-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 1749-125
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 704-377-1561
 ; TELEFAX: 704-334-2014
 ; INFORMATION FOR SEQ ID NO: 15:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 124 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHEICAL: yes
 ; FRAGMENT TYPE: internal
 ; ORIGINAL SOURCE:
 ; ORGANISM: Hepatitis-C virus
 ; US-08-244-116B-15
 Alignment Scores:
 Pred. No.: 7.6e-33 Length: 124
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 1 Gaps: 0
 US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 87
 Qy 273 GGGTGGCAGGCTGCTCTGTCTCCCGCGGCTCTCGCCCTCGTGGGGCCCAATGAC 332
 Db 88 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnasp 107
 Qy 333 CCGCGCGCAGG 344
 Db 108 ProArgArgArg 111
 RESULT 5
 US-08-290-665A-187
 ; Sequence 187, Application US/08290665A
 ; Patent No. 582852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 187:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: HK10
 ; US-08-290-665A-187
 Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0
 US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Db 112 ProArgArgArg 115

RESULT 8

US-08-290-665A-190

; Sequence 190, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 190:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: DK12

US-08-290-665A-190

Alignment Scores:

Pred. No.:	7,13e-33	Length:	191
Score:	44.00	Matches:	44
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	38.26%	Indels:	0
DB:	2	Gaps:	0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCCGTCTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCGCGGCGCAG 344

Db 112 ProArgArgArg 115

RESULT 9

US-08-290-665A-191

; Sequence 191, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 191:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: Z4

US-08-290-665A-191

Alignment Scores:

Pred. No.:	7,13e-33	Length:	191
Score:	44.00	Matches:	44
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	38.26%	Indels:	0
DB:	2	Gaps:	0

US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCCGTCTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCGCGGCGCAG 344

Db 112 ProArgArgArg 115

RESULT 10

US-08-290-665A-192

; Sequence 192, Application US/08290665A

; Patent No. 5882852

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; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-192

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCCGGTACCTTGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTCCTGTCCTCCCGCGGCTCTCGCCGCTCGTGGGCGCCAAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 11
US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; APPLICANT: BUKH, J., MILLER, R.H.

```

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; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
; US-08-290-665A-193

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCCGGTACCTTGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTCCTGTCCTCCCGCGGCTCTCGCCGCTCGTGGGCGCCAAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 12
US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; APPLICANT: BUKH, J., MILLER, R.H.

```

;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435

;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 2026-4116
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792

;; INFORMATION FOR SEQ ID NO: 195:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 191 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown

;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: 26
US-08-290-665A-195

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

Qy 213 GAGGCGAGGTCTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCTGTCCTCCCGCGCGGCTCTCGCCGCTCTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCCCGCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 13
US-08-290-665A-196
; Sequence 196, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435

;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 2026-4116
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792

;; INFORMATION FOR SEQ ID NO: 196:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 191 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown

;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: 27
US-08-290-665A-196

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-196 (1-191)

Qy 213 GAGGCGAGGTCTCTGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCTGTCCTCCCGCGCGGCTCTCGCCGCTCTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCCCGCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 14
US-08-290-665A-197
; Sequence 197, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE

CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 197:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: DK13
 US-08-290-665A-197

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0
 US-09-873-224A-147 (1-345) x US-08-290-665A-197 (1-191)

QY 213 GAGGCGAGTCTCGGCTACGCCGGGTACCTTGGCCCTATATGGAATGAGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyrglyAsnGluGlyCys 91
 QY 273 GGTGGGCGAGGTGGCTCCTGTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCGCGGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 15

PCT-US95-10398-187
 ; Sequence 187, Application PC/TUS9510398
 ; GENERAL INFORMATION:
 ; APPLICANT: BURK, J., MILLER, R. H. AND
 ; APPLICANT: PURCELL, R. H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/10398
 FILING DATE: 15-AUG-1995
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/086,428
 FILING DATE: 29 JUNE 1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/290/665
 FILING DATE: 15 AUGUST 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 187:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: HK10
 PCT-US95-10398-187

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 5 Gaps: 0
 US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)

QY 213 GAGGCGAGTCTCGGCTACGCCGGGTACCTTGGCCCTATATGGAATGAGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyrglyAsnGluGlyCys 91
 QY 273 GGTGGGCGAGGTGGCTCCTGTCCCGCGGGCTCTCGCCGCTCGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCGCGGCGCAGG 344
 Db 112 ProArgArgArg 115

Search completed: August 10, 2004, 20:53:11
 Job time : 23 secs

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: August 10, 2004, 20:50:48 ; Search time 43.5 Seconds

(without alignments)
4975.660 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1291235 segs, 313682936 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2479628

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
<p>§</p>					

1	115	100.0	115	12	US-09-873-224-148	Sequence 148, App
2	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
3	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
4	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
5	83	72.2	100	12	US-10-651-165-233	Sequence 233, App
6	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
7	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
8	44	38.3	166	12	US-09-878-281-164	Sequence 164, App
9	44	38.3	166	10	US-09-873-224-164	Sequence 164, App
10	44	38.3	189	12	US-10-450-649-9	Sequence 9, Appl
11	44	38.3	319	12	US-10-651-165-217	Sequence 217, App
12	44	38.3	319	12	US-10-651-165-219	Sequence 219, App
13	38	33.0	130	14	US-10-268-569-19	Sequence 19, Appl
14	38	33.0	161	14	US-10-230-381-5	Sequence 5, Appl
15	38	33.0	191	14	US-10-230-381-53	Sequence 53, Appl
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17	38	33.0	191	14	US-10-230-381-55	Sequence 55, Appl
18	38	33.0	193	14	US-10-230-381-50	Sequence 50, Appl
19	38	33.0	193	14	US-10-230-381-51	Sequence 51, Appl
20	38	33.0	193	14	US-10-230-381-52	Sequence 52, Appl
21	38	33.0	209	14	US-10-230-381-3	Sequence 3, Appl
22	38	33.0	209	14	US-10-230-381-7	Sequence 7, Appl
23	38	33.0	373	14	US-10-230-381-11	Sequence 11, Appl
24	38	33.0	373	14	US-10-230-381-13	Sequence 13, Appl
25	38	33.0	373	14	US-10-230-381-15	Sequence 15, Appl
26	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
27	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
28	36	31.3	166	12	US-09-873-224-194	Sequence 194, App
29	34	29.6	113	9	US-09-921-397-78	Sequence 78, App
30	34	29.6	122	14	US-10-098-857B-1	Sequence 1, Appl
31	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
32	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
33	34	29.6	126	12	US-09-873-224-166	Sequence 166, App
34	34	29.6	151	14	US-10-232-129-14	Sequence 14, Appl
35	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appl
36	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appl
37	34	29.6	182	16	US-10-719-619-2	Sequence 2, Appl
38	34	29.6	190	12	US-10-450-649-7	Sequence 7, Appl
39	34	29.6	190	12	US-10-288-562-1	Sequence 1, Appl
40	34	29.6	235	15	US-10-365-620-58	Sequence 58, Appl
41	34	29.6	249	15	US-10-365-620-54	Sequence 54, Appl
42	34	29.6	258	12	US-10-651-165-196	Sequence 196, App
43	34	29.6	319	12	US-10-651-165-218	Sequence 218, App
44	34	29.6	424	14	US-10-173-480-28	Sequence 28, Appl
45	34	29.6	450	12	US-10-651-165-179	Sequence 179, App

ALIGNMENTS

RESULT 1

US-09-873-224-148

Sequence 148, Application US/09873224

Publication No. US20030064360A1

GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus

genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Innogenetics sa.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 00 32 9 241 07 11
TELEFAX: 00 32 9 241 07 99
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-09-873-224-148

Alignment Scores:
Pred. No.: 8,87e-98 Length: 115
Score: 115.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCAACCCCGCCACAGG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20
QY 61 ACCTTAAGTCCCGAGCGCGGTTCAGATCGTGGTGGTTCAGTTCACGTCACACGAGG 120
Db 21 ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysThrHisAlaGly 40
QY 121 GCCCCAGTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCCAGTA 180
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60
QY 181 GCGCCCAACCCATCCCGAGGCGCGCCGACCGAGGCGAGTCTGGGTGAGTCCGCGGT 240
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80
QY 241 ACCCTTGGCCCTTATATGGAATGAGGCTGCGGGTGGGCGAGGTGGTCTCCGTCCCGCG 300
Db 81 ThrLeuGlyProTyMetGlyMetAlaAlaAlaGlyGlyGlnGlySerCysProArg 100
QY 301 GCGGCTCTCGCGGTGCTGGGCGCCAAATGACCCCGCGCAGGA 345
Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115

RESULT 2

US-09-851-138-50
Sequence 50, Application US/09851138
Publication No. US20020183508A1
GENERAL INFORMATION:
APPLICANT: STUYVERS, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:

LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50

Alignment Scores:
Pred. No.: 5,14e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)

QY 51 CGGCACAGACAGTAAAGTTCACGAGCGCGGTCCAGATCGTTCGAGTTACGTGCTA 110
Db 18 ArgProGlnAspValLysPheProGlyGlyGlnLeuValGlyValTyrValLeu 37
QY 111 CCAGCAGGCGGCCCCAGTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGAA 170
Db 38 ProArgargglyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGGCGCCAAACCCATCCCGAGGCGCGCCGCAACCGAGGCGAGGTCTCGGCT 230
Db 58 ProArgSerArgGlnProLleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGTACCCCTTGGCCCTTATATGGGAATGAGGCTGCGGTGGCGAGGTGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCGCCGCGCGCTCTCGCCGCTCGTGGGCCCAATGACCCCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3

US-09-899-046-148
Sequence 148, Application US/09899046
Publication No. US20030008274A1
GENERAL INFORMATION:

APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:

INFORMATION FOR SEQ ID NO: 148:

SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-09-899-046-148

Alignment Scores:

Pred. No.: 5,14e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)

QY 51 CGGCCACAGACGTTAAGTTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspVallysPheProGlyGlyGlyGlnleValGlyValTyValLeu 37
QY 111 CCACGAGGGGCCCCAGTGTGGTGTGCGTGCAGTGCAGACTCCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTGCGAGTAGGCGCCAAACCCATCCAGGCGCGCGCCGAAACCGAGGCGAGGTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyA-GSerTrpAla 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTGCGGTGGGCGAGGTGGCTC 290
Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTGCGCCCTGCGTGGGCGCCAAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 4

US-09-878-281-148
Sequence 148 Application US/09878281
Publication No. US2003032005A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/878,281
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

Alignment Scores:
Pred. No.: 5,14e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-148 (1-115)

QY 51 CGGCCACAGACGTTAAGTTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspVallysPheProGlyGlyGlyGlnleValGlyValTyValLeu 37
QY 111 CCACGAGGGGCCCCAGTGTGGTGTGCGTGCAGTGCAGACTCCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTGCGAGTAGGCGCCAAACCCATCCAGGCGCGCGCCGAAACCGAGGCGAGGTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyA-GSerTrpAla 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTGCGGTGGGCGAGGTGGCTC 290
Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTGCGCCCTGCGTGGGCGCCAAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 5

US-10-651-165-233
Sequence 233, Application US/10651165
Publication No. US2004004787A1
GENERAL INFORMATION:
APPLICANT: LEROUX-ROELS, Geert
APPLICANT: DELEYS, Robert
APPLICANT: MAERTENS, Geert
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
TITLE OF INVENTION: VIRUS
FILE REFERENCE: 2551-94
CURRENT APPLICATION NUMBER: US/10/651,165
CURRENT FILING DATE: 2003-09-02
PRIOR APPLICATION NUMBER: US/08/974,690C
PRIOR FILING DATE: 1997-11-19
PRIOR APPLICATION NUMBER: PCT/EP94/03555
PRIOR FILING DATE: 1994-10-28
PRIOR APPLICATION NUMBER: EP 93402718.6
PRIOR FILING DATE: 1993-11-04
NUMBER OF SEQ ID NOS: 286
SOFTWARE: PatentIn version 3.1
SEQ ID NO 233
LENGTH: 100
TYPE: PRT
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (17)-(17)
OTHER INFORMATION: Xaa is any amino acid

Alignment Scores:
Pred. No.: 4,25e-68 Length: 100
Score: 83.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 72.17% Indels: 0
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-233 (1-100)

QY 51 CGGCCACAGACGTTAAGTTCCAGGCGCGGTCCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspVallysPheProGlyGlyGlyGlnleValGlyValTyValLeu 37
QY 111 CCACGAGGGGCCCCAGTGTGGTGTGCGTGCAGTGCAGACTCCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTGCGAGTAGGCGCCAAACCCATCCAGGCGCGCGCGAGGCGAGGTCTGGGCT 230

Db 58 ProArgSerArgAGlnProIleProAlaAlaArgThrGluGlyArgSerTrpAla 77
 QY 231 CAGCCGGGTACCTTGGCCCTATATGCGAATAGGGCTCGCGGTGGGAGGGTGGCTC 290
 Db 78 GlnProGlyTyProTrpProLeuTyArgGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
 QY 291 CTGTCCCGC 299
 Db 98 LeuSerPro 100

RESULT 6

US-10-396-964-15
 ; Sequence 15, Application US/10396964
 ; Publication No. US20030198946A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Simmonds, Peter
 ; APPLICANT: Chan, Shiu-Wan
 ; APPLICANT: Yap, Peng L.
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 ; STREET: 1211 East Morehead Street
 ; CITY: Charlotte
 ; STATE: No. US20030198946A1th Carolina
 ; COUNTRY: United States
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/10/396,964
 ; FILING DATE: 23-MARCH-2003
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/244,116B
 ; FILING DATE: 15-JUL-1994
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB92/02143
 ; FILING DATE: 20-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 1749-125
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 704-377-1561
 ; TELEFAX: 704-334-2014
 ; INFORMATION FOR SEQ ID NO: 15:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 124 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHEICAL: yes
 ; FRAGMENT TYPE: internal
 ; ORIGINAL SOURCE:
 ; ORGANISM: Hepatitis-C virus
 ; US-10-396-964-15

Alignment Scores:
 Pred. No.: 5,96e-32 Length: 124
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-396-964-15 (1-124)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
 Db 68 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyArgGlyAsnGluGlyCys 87
 QY 273 GGGTGGGAGGAGTGGCTCTGTCTCCCGCGGCTCTCGCCCGTCTCGCCGGCCCAAAATGAC 332
 Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
 QY 333 CCCCAGGCGCAGG 344
 Db 108 ProArgArgArg 111

RESULT 7

US-09-899-046-164
 ; Sequence 164, Application US/09899046
 ; Publication No. US20030008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899,046
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 164:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 166 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-899-046-164

Alignment Scores:

Pred. No.: 5,71e-32 Length: 166
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyArgGlyAsnGluGlyCys 91
 QY 273 GGGTGGGAGGAGTGGCTCTGTCTCCCGCGGCTCTCGCCCGTCTCGCCGGCCCAAAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCAGGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 8

US-09-878-281-164
 ; Sequence 164, Application US/09878281
 ; Publication No. US20030032005A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:


```

/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/878,281
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 164:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 166 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-09-878-281-164

Alignment Scores:
Pred. No.:      5 71e-32      Length:      166
Score:          44.00      Matches:      44
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      38.26%      Indels:    0
DB:              10          Gaps:      0

US-09-873-224A-147 (1-345) x US-09-878-281-164 (1-166)

QY      213 GAGGCGAGGTCTGGGCTCAGCCGCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db      72  GluGlyArgSerTrpAlaGlnProGlyTyrProTrpLeuTyrGlyAsnGluGlyCys 91
QY      273 GSGTGGGAGGTTGCTCTGTCGCCGGCGGGCTCTCGCCGCTGGGGGCCCAATGAC 332
Db      92  GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY      333 CCCCGCGCGCAGG 344
Db      112 ProArgArgArg 115

RESULT 9
US-09-873-224-164
/ Sequence 164, Application US/09873224
/ Publication No. US20030064360A1
/ GENERAL INFORMATION:
/ APPLICANT: <Unknown>
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ NUMBER OF SEQUENCES: 270
/ CORRESPONDENCE ADDRESS:
/ STREET: Industriepark Zwijnaarde 7, box 4
/ CITY: Ghent
/ COUNTRY: Belgium
/ ZIP: B-9052
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/873,224
/ FILING DATE: 05-Jun-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE: <Unknown>
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Innogenetics sa
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 00 32 9 241 07 11
/ TELEFAX: 00 32 9 241 07 99
/ INFORMATION FOR SEQ ID NO: 164:
/ SEQUENCE CHARACTERISTICS:

```

```
RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 5.18e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 273 GGTGGCGAGGTCCTCTGCTCCCGCGGCTCTCGCCGCTCGTGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCGGCGCAGG 344
Db 112 ProArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.: 5.18e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-217 (1-319)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 273 GGTGGCGAGGTCCTCTGCTCCCGCGGCTCTCGCCGCTCGTGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCGGCGCAGG 344
Db 112 ProArgArg 115

RESULT 13
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 2.17e-26 Length: 130
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 273 GGTGGCGAGGTCCTCTGCTCCCGCGGCTCTCGCCGCTCGTGGGCCCA 326
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 14
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
```

```
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-651-165-219

Alignment Scores:
Pred. No.: 5.18e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 12 Gaps: 0
```

```
US-09-873-224A-147 (1-345) x US-10-651-165-219 (1-319)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 273 GGTGGCGAGGTCCTCTGCTCCCGCGGCTCTCGCCGCTCGTGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCGGCGCAGG 344
Db 112 ProArgArg 115
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RESULT 13
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19
```

```
Alignment Scores:
Pred. No.: 2.17e-26 Length: 130
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0
```

```
US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY 213 GAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 273 GGTGGCGAGGTCCTCTGCTCCCGCGGCTCTCGCCGCTCGTGGGCCCA 326
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 14
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
```

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; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.:      2.1e-26      Length:      161
Score:          38.00      Matches:      38
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:     33.04%     Indels:      0
DB:              14        Gaps:        0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTCGGGTGGCAGGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

QY 291 CTGTCCCGCGCGCTCTCGCCCTCTCGGGGCCAAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15
US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INXX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:
Pred. No.:      2.05e-26      Length:      191
Score:          38.00      Matches:      38
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:     33.04%     Indels:      0
DB:              14        Gaps:        0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTCGGGTGGCAGGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

QY 291 CTGTCCCGCGCGCTCTCGCCCTCTCGGGGCCAAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: August 10, 2004, 21:01:47
Job time : 44.5 secs
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B/GR